CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, March 28, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Mar.				
•28	Coal-handling machinery	Philadelphia, Pa.	S. & B. S.	3-21
30	Capstans	Norfolk, Va.	S.	2-21
30	Capstans	Charleston, S. C.	S.	2-21
•30	Water tank & tower	Wash., D. C.	S.	2-28
30	Generating set	Portsmouth, N. H.	S.	3- 7
30	Quay walls	Charleston, S. C.	S.	3-14
Apr				
•3	Canal, etc.	Great Falls, Mont.	P., S. & B. S.	2-14
•13	Buildings	Fort Hancock, N. J.	P. & S.	3-21
20	Locomotive jib crane	Philadelphia, Pa.	S.	3-28

•Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Mar. 28. Lighting Plant, New York, N. Y. ..... Mar. 21
Mar. 29. Heating, etc., Kansas City, Mo. ..... Mar. 28
Mar. 30. Generating set, Portsmouth, N. H. ..... Mar. 7
Apr. 1. Power plant, Winnipeg, Man. ..... Mar. 14
Apr. 2. Power plant, Panama ..... Mar. 21
Apr. 4. Conduit system, Macon, Ga. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 4. Conduits, etc., Macon, Ga. ..... Mar. 21
Apr. 5. Boilers, etc., Indianapolis, Ind. ..... Mar. 21
Apr. 5. Lighting, Fort Erie, Ont. ..... Mar. 28
Apr. 8. Lighting system, Clifton Forge, Va. ..... Mar. 14
Apr. 15. Lighting system, Battleford, Sask. ..... Mar. 21
Apr. 15. Power plant, Bowling Green, Ky. ..... Mar. 7
Apr. 29. Heating apparatus, Macon, Ga. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 30. Conduit system, Seattle, Wash. ..... Mar. 21
May 1. Lighting, Natchez, Miss. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
May 6. Equipment, Los Angeles, Cal. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.

BRIDGES.

Mar. 28. Bridge, Reading, Pa. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Mar. 28. Substructure, etc., Toledo, Ohio. ..... Mar. 14
Mar. 28. Bridges, Huntington, Ind. ..... Mar. 21
Mar. 28. Bridge repair, Chicago, Ill. ..... Mar. 21
Mar. 29. Bridge, Urbana, Ill. ..... Mar. 21
Mar. 30. Bridges, Dauphin, Man. ..... Mar. 21
Apr. 1. Bridges, etc., Ft. Rosecrans, Cal. ..... Mar. 21
Apr. 1. Abutments and piers, St. John, N. B. ..... Mar. 21
Apr. 1. Trestles, Raleigh, N. C. ..... Mar. 21
Apr. 1. Bridges, Salinas, Cal. ..... Feb. 21
Apr. 1. Bridge, Greenwood, Miss. ..... Jan. 31
Apr. 1. Bridge extension, Tipton, Ind. ..... Mar. 28
Apr. 2. Bridge, Portland, Ind. ..... Mar. 28
Apr. 2. Bridges, etc., Wabash, Ind. ..... Mar. 28
Apr. 2. Bridges, Yankton, S. Dak. ..... Mar. 28
Apr. 2. Bridges, Covington, Ind. ..... Mar. 21
Apr. 2. Bridges, etc., Crawfordsville, Ind. ..... Mar. 14
Apr. 4. Viaduct, Jersey City, N. J. ..... Mar. 28
Apr. 4. Bridge, Prosser, Wash. ..... Mar. 28
Apr. 5. Bridges, Mitchell, S. Dak. ..... Mar. 21
Apr. 6. Abutments, Cleveland, Ohio. ..... Mar. 21
Apr. 6. Bridges, Bryan, Ohio ..... Mar. 28
Apr. 8. Substructure, Salem, Ohio ..... Mar. 28
Apr. 8. Bridge, Ft. Worth, Tex. ..... Mar. 28
Apr. 8. Bridge, Shelley, Idaho ..... Mar. 28
Apr. 8. Bridge, etc., South Bend, Ind. ..... Mar. 21
Apr. 8. Trestles, etc., Louisville, Ky. ..... Mar. 14
Advertised, Eng. News, Mar. 14 to Apr. 4.
Apr. 9. Bridge, Duluth, Minn. ..... Mar. 21
Apr. 10. Bridge, etc., Ft. Wayne, Ind. ..... Mar. 28
Apr. 11. Bridge, Greensburg, Ind. ..... Mar. 28
Apr. 11. Repairing bridge, Somerfield, Pa. ..... Mar. 28
Apr. 11. Bridges, Wenatchee, Wash. ..... Mar. 28
Apr. 11. Arch, Granville, Ohio ..... Mar. 21
Apr. 13. Bridges, Cleveland, Ohio ..... Mar. 28
Apr. 15. Bridge, Denver, Colo. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 25. Bridges, Glendive, Mont. ..... Mar. 14
Advertised, Eng. News, Mar. 14 to Apr. 4.
Apr. 29. Viaduct, New Orleans, La. ..... Feb. 28
Advertised, Eng. News, Feb. 28 to Apr. 11.

BUILDINGS.

Mar. 28. Elephant house, New York, N. Y. ..... Mar. 14
Mar. 29. Factory, New Glasgow, N. S. ..... Mar. 28
Mar. 30. Shops, Fort Robinson, Neb. ..... Mar. 28
Apr. 1. Hospital, Saskatoon, Sask. ..... Mar. 21
Apr. 1. Schools, New York, N. Y. ..... Mar. 21
Apr. 1. Nurses' Home, New York, N. Y. ..... Mar. 21
Apr. 3. Plumbing fixtures, Washington, D. C. ..... Feb. 14
Advertised, Eng. News, Feb. 14 to Mar. 7.
Apr. 3. Library, University, N. Dak. ..... Mar. 7
Apr. 4. Filing cases, etc., New York, N. Y. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 5. Hotel, Lexington, Ky. ..... Mar. 28
Apr. 8. Post-office, Denver, Colo. ..... Mar. 7
Apr. 9. Post-office, Little Falls, N. Y. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
Apr. 9. Court-house, Carthage, Ill. ..... Feb. 28
Apr. 10. Elevator, Superior, Wis. ..... Mar. 21
Apr. 11. Interior finish, New York, N. Y. ..... Mar. 14
Apr. 12. Repairs, Washington, D. C. ..... Mar. 14
Apr. 13. Buildings, Fort Hancock, N. J. ..... Mar. 14
Advertised, Eng. News, Mar. 14 to Apr. 4.
Apr. 15. Post-office, Tyler, Tex. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
Apr. 15. Marble work, West Point, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 11.
Apr. 18. Post-office, Flint, Mich. ..... Mar. 21
May 1. Plans, Milwaukee, Wis. ..... Feb. 28
May 1. Buildings, North Chicago, Ill. ..... Mar. 14
June 4. State Capitol, Pierre, S. Dak. ..... Mar. 7

WATER SUPPLY AND IRRIGATION.

Mar. 28. Pipe and castings, Chicago, Ill. ..... Mar. 21
Mar. 28. Water-works, Gibbon, Neb. ..... Mar. 21
Mar. 29. Ditches, Breckenridge, Minn. ..... Mar. 21
Mar. 29. Tunnel, Milwaukee, Wis. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Mar. 29. Ditch, Greenfield, Ind. ..... Mar. 14
Mar. 29. Water-works, Alma Center, Wis. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Mar. 30. Water tank and tower, Washington, D. C. ..... Feb. 21
Advertised, Eng. News, Feb. 21 and 28.
Mar. 30. Pipe, etc., Richmond, Que. ..... Mar. 28
Apr. 1. Water-works, Cushing, Iowa ..... Mar. 28
Apr. 2. Mains, Crowley, La. ..... Feb. 28
Apr. 2. Water-works, Guntersville, Ala. ..... Mar. 21
Apr. 2. Well, Canton, Ill. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 3. Canals, etc., Great Falls, Mont. ..... Feb. 14
Advertised, Eng. News, Feb. 14 to Mar. 21.
Apr. 3. Ditches, Parker, S. Dak. ..... Feb. 21
Apr. 3. Pipe, etc., Jackson, Mich. ..... Mar. 28
Apr. 4. Ditches, etc., Emmetsburg, Iowa. ..... Mar. 7
Apr. 4. Filtration plant, Yonkers, N. Y. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Apr. 4. Ditch and laterals, Albert Lea, Minn. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 4. Water-works, Austin, Pa. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 5. Ditch, Oskaloosa, Iowa ..... Mar. 21
Apr. 5. Water mains, Solon, Iowa ..... Mar. 28
Apr. 9. Water-works, Wilmont, Minn. ..... Mar. 28
Apr. 10. Wells, etc., New York, N. Y. ..... Mar. 28
Apr. 10. Pipe and special castings, Portland, Ore. ..... Mar. 28
Apr. 10. Canal, etc., Wheatland, Wyo. ..... Mar. 21
Apr. 10. Filter plant, Atlanta, Ga. ..... Mar. 21
Apr. 10. Cast-iron pipe, etc., Atlanta, Ga. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 10. Canal, Belle Fourche, S. Dak. ..... Feb. 21
Advertised, Eng. News, Feb. 21 and 28.
Apr. 13. Drain, Valley City, N. Dak. ..... Mar. 28
Apr. 15. Canal, Portland, Ore. ..... Feb. 21
Advertised, Eng. News, Feb. 21 to Mar. 14.
Apr. 15. Carting & laying pipe, New London, Conn. ..... Mar. 21
Apr. 15. Water-works, Battleford, Sask. ..... Mar. 21
Apr. 15. Water-works, Billings, Mont. ..... Mar. 7
Apr. 16. Water-works, McKeesport, Pa. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Apr. 16. Laying pipe, etc., Cincinnati, Ohio ..... Mar. 21
Apr. 16. Ditch and laterals, Vandalia, Ill. ..... Mar. 28
Apr. 16. Water-works, McKeesport, Pa. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 17. Structures, Huntley, Mont. ..... Feb. 28
Advertised, Eng. News, Feb. 28 to Mar. 21.
Apr. 18. Paving, etc., Erie, Pa. ..... Mar. 28
Advertised, Eng. News, Mar. 28.
Apr. 20. Levees, drains, etc., Rock Island, Ill. ..... Mar. 28
Apr. 24. Water-works, Ft. Moultrie, S. C. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
Apr. 30. Ditches, etc., Belle Fourche, S. Dak. ..... Mar. 28
May 2. Reservoir, Astoria, Ore. ..... Mar. 28
May 15. Ditch, Albany, Ill. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
June 3. Well, etc., Fort Bliss, Tex. ..... Mar. 21
June 5. Dike, Crawford, Neb. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 11.

SEWERAGE.

Mar. 29. Sewers, Menominee, Mich. ..... Mar. 21
Mar. 29. Sewers, Dayton, Ohio ..... Mar. 28
Mar. 29. Sewers, Greenfield, Ind. ..... Mar. 28
Mar. 29. Sewer, Hastings, Mich. ..... Mar. 28
Mar. 29. Sewers, Madison, Wis. ..... Mar. 28
Mar. 29. Sewer, Boone, Iowa ..... Mar. 28
Apr. 1. Sewer, Toledo, Ohio ..... Mar. 28
Apr. 1. Sewer, Bay City, Mich. ..... Mar. 28
Apr. 1. Sewers, Larned, Kan. ..... Mar. 21
Apr. 1. Sewer, Perth Amboy, N. J. ..... Mar. 21
Apr. 1. Sewers, New York, N. Y. ..... Mar. 21
Apr. 1. Sewer mains, Westerleigh (S. I.), N. Y. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Apr. 2. Sewage disposal works, Waterbury, Conn. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
Apr. 2. Sewer, Crowley, La. ..... Feb. 21
Apr. 2. Sewers, etc., Shelbyville, Ky. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 3. Sewer, Oakland, Cal. ..... Mar. 28
Apr. 4. Sewers, etc., New York, N. Y. ..... Mar. 28
Apr. 4. Septic tank, Ithaca, N. Y. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 5. Tunnel, Boston, Mass. ..... Mar. 14
Advertised, Eng. News, Mar. 14.
Apr. 5. Trenches, Boston, Mass. ..... Mar. 7
Advertised, Eng. News, Mar. 7.
Apr. 5. Sewer, Des Moines, Iowa ..... Mar. 28
Apr. 6. Sewers, Fond du Lac, Wis. ..... Mar. 28
Apr. 8. Sewers, Canaan, Conn. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 8. Sewers, Oshkosh, Wis. ..... Mar. 21
Apr. 10. Interceptors, etc., Baltimore, Md. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
Apr. 11. Sewer, Parkersburg, W. Va. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 12. Sewers, Washington, D. C. ..... Mar. 21
Advertised, Eng. News, Mar. 21 and 28.
Apr. 15. Sewer, Washington, D. C. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 23. Sewers, Rushville, Ind. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 30. Sewers, Fernie, B. C. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 11.
May 1. Sewers and water-works, Hartsville, S. C. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 25.
May 1. Sewers, Camden, S. C. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 25.

STREETS AND ROADS.

Mar. 28. Paving, etc., Cincinnati, Ohio ..... Mar. 21
Mar. 28. Paving, etc., Osceola, Iowa ..... Mar. 21
Mar. 28. Pavement, Chicago, Ill. ..... Mar. 21
Mar. 28. Macadam, Xenia, Ohio ..... Mar. 21
Mar. 28. Soil, New York, N. Y. ..... Mar. 14
Mar. 28. Gravel, New York, N. Y. ..... Mar. 14
Mar. 29. Paving, etc., Cincinnati, Ohio ..... Mar. 21
Mar. 29. Paving, Menominee, Mich. ..... Mar. 21
Mar. 29. Paving, etc., Hasting, Mich. ..... Mar. 21
Mar. 29. Sidewalks, etc., Ft. Leavenworth, Kan. ..... Mar. 21
Mar. 29. Paving, St. Clairsville, Ohio ..... Mar. 21
Mar. 29. Paving, Buffalo, N. Y. ..... Mar. 21
Mar. 29. Paving, Grand Rapids, Mich. ..... Mar. 28
Mar. 29. Paving, Boone, Iowa ..... Mar. 28
Mar. 30. Road, Bradford, Pa. ..... Mar. 28
Mar. 30. Paving, etc., Carrollton, Ill. ..... Mar. 28
Mar. 30. Grading, etc., Cleveland, Ohio ..... Mar. 14
Mar. 30. Paving, Washington, D. C. ..... Mar. 7
Advertised, Eng. News, Mar. 7 and 14.
Apr. 1. Paving, etc., Port Chester, N. Y. ..... Mar. 14
Advertised, Eng. News, Mar. 14 and 21.
Apr. 1. Grading, etc., St. Paul, Minn. ..... Mar. 14
Apr. 1. Paving, etc., Cincinnati, Ohio ..... Mar. 21
Apr. 1. Regulating, etc., New York, N. Y. ..... Mar. 21
Apr. 1. Sidewalks, Albany, Ga. ..... Mar. 28
Apr. 1. Paving, etc., Lawrence, Kan. ..... Mar. 28
Apr. 1. Sidewalks, Grand Forks, N. Dak. ..... Mar. 28
Apr. 2. Sidewalks, Summit, N. J. ..... Mar. 28
Apr. 2. Road, Danville, Ind. ..... Mar. 28
Apr. 2. Sidewalks, etc., Regina, Sask. ..... Mar. 28
Apr. 2. Road, Vincennes, Ind. ..... Mar. 21
Apr. 2. Roads, Covington, Ind. ..... Mar. 14
Apr. 3. Grading, etc., Ottawa, Kan. ..... Mar. 14
Apr. 3. Driveway, etc., Chicago, Ill. ..... Mar. 7
Apr. 3. Highway, Columbus, Ohio. ..... Mar. 21
Apr. 3. Paving, etc., New York, N. Y. ..... Mar. 28
Apr. 4. Paving, etc., New York, N. Y. ..... Mar. 28
Apr. 4. Paving, etc., Cincinnati, Ohio ..... Mar. 21
Apr. 5. Roads, Vincennes, Ind. ..... Mar. 21
Apr. 5. Repaving, Buffalo, N. Y. ..... Mar. 28
Apr. 6. Paving, Marinette, Wis. ..... Mar. 28
Apr. 8. Paving, Binghamton, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 4.
Apr. 8. Repaving, Binghamton, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 4.
Apr. 8. Paving, etc., Cincinnati, Ohio ..... Mar. 21
Apr. 8. Grading, etc., Oshkosh, Wis. ..... Mar. 21
Apr. 9. Paving, etc., Cincinnati, Ohio. ..... Mar. 28
Apr. 13. Grading, etc., Columbus, Ohio. ..... Mar. 28
Apr. 13. Roads, Terre Haute, Ind. ..... Mar. 28
Apr. 15. Paving, etc., Cincinnati, Ohio ..... Mar. 28
Apr. 16. Roads, Washington, Pa. ..... Mar. 28
Apr. 17. Paving, etc., Ashland, Ky. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 4.
May 7. Paving, Alexandria, La. ..... Mar. 28

MISCELLANEOUS CONTRACTS.

At once. Drainage tunnel, Colorado Springs, Colo. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Mar. 28. Dredging, Detroit, Mich. ..... Mar. 21
Mar. 28. Mooring stones, Portland, Me. ..... Mar. 21
Mar. 28. Coal-handling machinery, Philadelphia, Pa. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Mar. 28. Canal, Boston, Mass. ..... Feb. 14
Advertised, Eng. News, Feb. 14 to 28.
Mar. 28. Greenhouse, New York, N. Y. ..... Mar. 14
Mar. 30. Dredging, Washington, D. C. ..... Mar. 14
Mar. 30. Quay walls, Charleston, S. C. ..... Mar. 14
Mar. 30. Capstans, Charleston, S. C. ..... Feb. 21
Mar. 30. Capstans, Norfolk, Va. ..... Feb. 21
Mar. 30. Timber land, Scranton, Miss. ..... Feb. 28
Advertised, Eng. News, Feb. 28 to Mar. 21.
Mar. 30. Dredging plant, Cincinnati, Ohio. ..... Mar. 7
Advertised, Eng. News, Mar. 7 to Mar. 28.
Mar. 30. Removal of garbage, Avalon, Pa. ..... Mar. 28
Apr. 2. Reclamation work, British India (Foreign). ..... Jan. 17
Apr. 2. Sprinkling, New Brighton, N. Y. ..... Mar. 21
Apr. 2. Dredging, Washington, D. C. ..... Mar. 21
Apr. 2. Broken stone, Windsor, Ont. ..... Mar. 21
Apr. 2. Engineering supplies, Panama ..... Mar. 21
Apr. 2. Stone, trap rock, New York, N. Y. ..... Mar. 28
Apr. 2. Dredging, Rainy River, Ont. ..... Mar. 28
Apr. 3. Sprinkling streets, Natchez, Miss. ..... Mar. 28
Apr. 3. Ry. sub-contract, Trans-Continental Ry. ..... Mar. 28
Apr. 3. C. E. Students, Washington, D. C. ..... Mar. 14
Apr. 3. Cement, Wheeling, W. Va. ..... Mar. 7
Advertised, Eng. News, Mar. 7 to Mar. 28.
Apr. 4. Tug, Washington, D. C. ..... Mar. 21
Apr. 4. Tunnel, Boston, Mass. ..... Mar. 21
Advertised, Eng. News, Mar. 21 and 28.
Apr. 4. Repairing pier, Grand Rapids, Mich. ..... Mar. 7
Advertised, Eng. News, Mar. 7 to Mar. 28.
Apr. 5. Drain, Algona, Iowa ..... Feb. 28
Apr. 5. Crib and riprap, Cincinnati, Ohio ..... Mar. 14
Advertised, Eng. News, Mar. 14 to 28.
Apr. 6. Sidewalks, Monuments, Fort Worth, Tex. ..... Mar. 21
Advertised, Eng. News, Mar. 21 and 28.
Apr. 6. Outfitting dredges, Panama ..... Mar. 28
Apr. 8. Supplies, Panama ..... Mar. 28
Apr. 8. Pile dock, New York, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21 and 28.
Apr. 9. Steel top for dam, Pittsburg, Pa. ..... Mar. 28
Apr. 10. Dredging, New London, Conn. ..... Mar. 28
Apr. 10. Steam shovel work, Dyersburg, Tenn. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 11. Cement, Brandon, Man. ..... Feb. 14
Advertised, Eng. News, Feb. 14 to Mar. 7.
Apr. 11. Subway, New York, N. Y. ..... Mar. 21
Apr. 11. Wharf, Charlottetown, P. E. I. ..... Mar. 21
Apr. 12. Ditches, Brookings, S. Dak. ..... Oct. 13
Apr. 13. Chess wagons, Washington, D. C. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 4.
Apr. 15. Cement, Montrose, Colo. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 11.
Apr. 15. Bear-trap gates, Wheeling, W. Va. ..... Mar. 21
Advertised, Eng. News, Mar. 21 to Apr. 11.
Apr. 16. Wireless sets, New York, N. Y. ..... Mar. 28
Apr. 16. Light-house foundation, Philadelphia, Pa. ..... Mar. 28
Advertised, Eng. News, Mar. 28 and Apr. 4.
Apr. 17. Buoy service, Detroit, Mich. ..... Mar. 28
Apr. 20. Levees, etc., Rock Island, Ill. ..... Mar. 28
Apr. 20. Cement, stone, sand, Portland, Me. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
Apr. 20. Locomotive jib crane, Philadelphia, Pa. ..... Mar. 28
Apr. 22. Cement, Provo, Utah ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
Apr. 22. Crematory, Portland, Ore. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
Apr. 22. Tunnels, approaches, bridge substructures, Long Island City, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 24. Removing garbage, etc., Schenectady, N. Y. ..... Mar. 21
Advertised, Eng. News, Mar. 21.
Apr. 23. Dam machinery, Louisville, Ky. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
May 2. Dredging, Des Moines, Iowa ..... Mar. 14
May 15. Dredging, Albany, Ill. ..... Mar. 28
Advertised, Eng. News, Mar. 28 to Apr. 18.
May 21. Lock and approaches, Donaldsonville, La. ..... Mar. 28
Advertised, Eng. News, Mar. 21 to May 16.

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ARIZONA, NEW MEXICO & COLORADO.—Organized in New Mexico, with a capital of $1,000,000, to build a line from a point on the Southern Pacific in Arizona northeast to Farmington, N. Mex., which is on the Denver & Rio Grande. H. B. Cerveny is Pres.; F. McLaughlin, Secy. and Treas.; C. B. Davis, Ch. Engr., and F. W. Kinne, Gen. Mgr., all of Fort Worth, Tex.

BALTIMORE & OHIO.—The Cleveland (Ohio) City Council on March 11 passed an ordinance providing for the abolition of the crossing of the Baltimore & Ohio R. R. at Clark Ave., S. E.; the railroad to pay $100,000 and the city $70,000. J. T. Johnson is Div. Supt. B. & O. R. R., Cleveland.

COLORADO, OKLAHOMA & GULF.—This company has been chartered in Oklahoma to build a line 300 miles long from Arapaho, Okla., via Ardmore, to Sherman, Tex. The incorporators are William E. Hedges of the Columbia Bank & Trust Co., Oklahoma City; John Allen and J. Q. Robins of Tupelo, Miss.; W. M. Cox, of Baldwin, Miss., and C. W. Young, of Memphis, Tenn.

CHERRYVALE, OKLAHOMA & TEXAS.—The W. R. STUBBS CONTRACTING CO., New York Life Bldg., Kansas City, Mo., has contract for building a 200-mile section of this railway, which will extend from Caney, Kan., to El Paso, Tex., 900 miles. The portion held by the Stubbs Co. is between Caney and Kingfisher, Okla. S. M. Porter, of Caney, is Pres.

ILLINOIS CENTRAL.—Company has awarded to H. C. HODGES & SON of Birmingham, Ala., a contract for excavating 700,000 cu. yds. of earth and building a 7-mile line around Memphis.

KANSAS.—A report from Ft. Leavenworth, Kan., states that Capt. J. E. Normoyle, Constr. Q. M. at Ft. Leavenworth, is reported to have received instruction from the War Department to proceed with the building of railroad terminals on the reservation. The terminals will reach every important point on the reservation, will be built at the expense of the government and will cost $50,000. Prison labor will be used.

MONTEREY, FRESNO & EASTERN.—We are officially advised that the HUMBOLDT CONSTRUCTION CO., 500 Golden Gate Ave., San Francisco, has been awarded contract for building a wharf at Monterey Bay to be 1,700 ft. long. Other contracts will be let at once. Noted fully on March 7.

MEMPHIS R. R. TERMINAL.—This company has been incorporated, with $100,000 capital, by A. W. Sullivan, S. T. Fulton, F. A. Briton, C. R. Gray, J. L. Lancaster, W. S. Kling, J. H. Watkins, W. J. Haralson, G. E. Evans, C. H. Ackert and J. W. Thomas, Jr., of Memphis, Tenn.

MISSOURI CENTRAL.—This company, which proposes to build a line across the State of Missouri from St. Louis to Kansas City, has elected officers as follows: George B. Harrison, Pres.; P. K. Givens of Fayette, Vice-Pres.; E. W. Price of Keytesville, Treas.; Howard Ellis, New Florence, Secy.; W. B. Cawthorn, Engr.

MISSISSIPPI SOUTHERN.—Company has been chartered to build a line from Gulfport, Miss., through Laurel, to West Point, passing through the counties of Harrison, Greene, Jones, Jasper, Scott, Leake, Attala and Winston. M. Muhle, T. H. Oden, H. O. Pfeifer, W. J. McBride, all of Laurel, are the incorporators.

NEW YORK, NEW HAVEN & HARTFORD.—Plans to elevate the main line of this company in Meriden, Conn., at a cost of between $2,000,000 and $3,000,000 have been submitted to the local authorities, it is stated. The work includes two new freight houses, extensive alterations to the passenger station, elevated sidings to factories, and concrete bridges in place of the existing grade crossings. E. P. Dawley is Engr. Construction, New Haven, Conn.

OWENSBORO & ROCKPORT TERMINAL & BRIDGE CO.—This company has been organized in Owensboro, Ky., with a capital of $100,000. The articles permit the company to incur an indebtedness of $1,000,000. The object of the company is to build a line from Owensboro to Rockport, Ind., connecting at Rockport with the Southern Railway, giving Owensboro a northern outlet. A bridge will be constructed across the Ohio River a few miles above Owensboro. The officers of the new concern are: A. S. Kennedy of Rockport, Pres.; E. T. Franks, First Vice-Pres.; F. A. Ames, Second Vice-Pres.; James H. Parrish, Treas., and George H. Cox, Secy., all of Owensboro.

ROSCOE, SNYDER & PACIFIC.—Martin Duvall, Ch. Engr., Snyder, Tex., advises us that tracklaying probably will begin in May, and it is planned to have the line to Snyder, 31 miles, completed in July. As noted on Feb. 7, surveys are made from Roscoe, Tex., to Griffiths Canyon, 53 miles. Contract for building the first 30 miles has been awarded to N. T. REED, of Abilene, Tex. The route is through a level country with a soil as productive, it is claimed, as the prairies of Illinois. There are no streams of any importance to be crossed. Line will run from Roscoe, Tex., to Portales, N. Mex., 240 miles. F. W. James is Pres., Abilene, Tex.

SOUTHERN PACIFIC.—The Washington "Star" states that "13 new lines, representing an outlay of $53,810,000, will be constructed this summer by the Southern Pacific, work to begin with settled weather. Five of the new roads, or nearly half of the tracks, will be laid in California. This great total of new tracks does not include the electric railway system of 44 miles it is constructing at an outlay of $2,000,000 between San Jose and San Mateo and Los Gatos and Mayfield. Nor does it include the 110 miles of road it is to build jointly with the Santa Fe under the name of the Northwestern Pacific, north from Willitts into Humboldt County, in order to give Eureka a rail outlet at an estimated expense of $10,000,000. The 13 new lines will have a total mileage of 1,512. One of these lines, ten miles in length, which is known as the Bayshore cut-off, will be completed in about four months at a total cost of $7,000,000. Another line is to cost $25,000,000, and it will be 775 miles in length. It will give the Southern Pacific direct entrance into Mazatlan and Guadalajara, in Mexico. This new line branches off from Harriman's Cananea, Yaqui River and Pacific road at Alamos. To the latter line Harriman is to build two extensions, one 170 miles long and the other 100 miles in length."

ST. LOUIS & OKLAHOMA SOUTHERN.—Charles D. Bennett, Ch. Engr., St. Louis, informs us that contracts are awarded, names of contractors to be announced later, for building this line. The railway will be about 112 miles long, and will extend from Monett, Mo., to Muskogee, Ind. T., via Pineville, Mo., and Tahlequah, Ind. T. Right-of-way is mostly obtained. Capital is secured and survey is being made. James A. Sturges is Pres., Pineville, Mo.

SOUTH TEXAS & GULF.—This company, which has a line now under construction from Artesia to Carrizo Springs, Tex., about 40 miles, has under consideration an extension from Carrizo Springs to Uvalde, Tex., a distance of 58 miles. Liberal bonuses of land and money will be offered the company to induce this construction, and prospects are that same will be accepted. George D. Drumheller of San Antonio, is Ch. Engr. Noted on March 7.

SAN JOAQUIN VALLEY WESTERN.—Incorporated in California by Senator Thomas Flint, of San Juan Bautista; C. G. MacBride, of San Jose, of the firm of Miller & Lux; Philip McRae, capitalist, of Hanford; C. P. May, Pres. of the Bank of Coalinga; James Shaw Robertson, capitalist; J. O. Hickman, Cashier of the First National Bank, Hanford; D. G. Hart, capitalist, Fresno; J. A. McClung, Jr., Fresno, and William M. Graham, Mgr. of the California Oil Fields, Ltd., Santa Barbara. The capital stock of the new road is $6,000,000, of which $250,000 has been subscribed. Charles A. Lee is general counsel, and John R. Rogers, Ch. Engr. of the Ocean Shore, has been appointed head of the engineering staff. The San Joaquin Valley Western is to start at a point in the city of Fresno and run to Mendota, thence westerly to Tres Pinos in San Benito County, northerly to Hollister and continue to Chittenden. Santa Cruz County; thence westerly to Watsonville, a distance of 140 miles. In addition, two branches are contemplated, one 40 miles in length, to Hanford, and a second, also 40 miles long, to Coalinga. The length of main line and branches is to be about 220 miles. At Watsonville the new line will meet the Ocean Shore Railway, with which a traffic arrangement will be effected that will allow unbroken connection between Hanford, Fresno, Coalinga and San Francisco.

ST. PAUL TERMINAL.—Under this name a company is being formed to build a line from St. Paul, Minn., to the stock yards in South St. Paul. The plans include the laying of about 50 miles of new track. The company proposes to put up a roundhouse in South St. Paul. William Mavigny, of Sioux City, Iowa, is Pres.; Joseph Strawhorn, of St. Paul, Supt. of the St. Paul Union Depot Co., is Gen. Mgr.

TEXAS.—A. M. Barton, Secy. of the Texas State Penitentiary Board, states that the State railroad, when completed, will be about 26 miles long, running from the International & Great Northern Railroad eastward to the Texas & New Orleans Railroad, crossing the St. Louis Southwestern Railway at Rusk, about eight miles from the Texas & New Orleans Railroad. Noted on March 14.

TOPEKA-SOUTHWESTERN.—W. L. Taylor, Pres., Topeka, Kan., advises us that contract has been let to the SOUTHWESTERN RY. CONSTRUCTION CO., of Topeka, for building and equipping this railway from Topeka to Council Grove, 60 miles. "Our engineering department is now preparing the specifications for the bridges, buildings, etc., and the same will be ready to sublet in the next two or three weeks. It is our intention to push the work on this line to completion and have it in operation by the first of next year. Our line will be laid with 80-lb. steel; rock ballast; a maximum grade of 1% compensated, and a maximum of 4° curvature. We expect to make arrangements for the Missouri Pacific to operate their coast to coast trains from Council Grove to Kansas City over our line via Topeka. This will save them nearly 40 miles and put Topeka on their through line."

TRANS-CONTINENTAL.—M. P. & J. T. Davis, of Quebec, Que., on April 3-April 6, will sublet 50 to 75 miles on their contract on the National Trans-Continental Railway of Canada, commencing at the east end of the Quebec Bridge, thence easterly 150 miles running at an average distance of about 18 miles to the south of the "International Railway." See March 7.

TONOPAH & GREENWATER.—Incorporated in New Jersey to build a railroad from Amargosa Borax Works in Inyo County, California, to Greenwater, in the same County. Capital stock is $500,000. Among the incorporators are Frank M. Smith, of Oakland, Cal., and Christian B. Zabriskie, 100 William St., New York; DeWitt Van Buskirk, Pres. of the Mechanics' Trust Co., Bayonne, N. J.; Charles F. Noe, Chn. of the Board of Directors of the Bayonne Bank; Oscar L. Gubelman and J. Warren Hardenburg, Jersey City, and George Carrigan, of the First National Bank, Bayonne.

WAUMANDEE R. R.—R. S. Cowie, Pres., Whitehall, Wis., states that this company proposes to build a railroad from Waumandee, via Anchorage, to Purdy, Wis., 14 miles. Surveys have been made and it is expected to begin construction in May or June. George Bradish is Ch. Engr., La Crosse, Wis. Dr. J. M. Smythe, Whitehall, Vice-Pres.; F. C. Richmond, Arcadia, Secy.; B. L. Van Gordon, Taylor, Treas.; G. O. Linderman, Osseo, Gen. Counsel.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—According to the "Journal of Commerce," the "plans of the New York, New Haven & Hartford Railroad Co. are definitely announced for the building of trolley lines from Great Barrington to South Egremont, in Massachusetts, and to Canaan, Conn., the junction point of the Central New England and Housatonic steam railroad lines. The line from Great Barrington to Canaan will closely parallel the Housatonic Railroad and is part of a more extensive system of parallels which will be followed ultimately by the using of the upper part of the Housatonic line mainly for express service, leaving local service to the trolleys. The immediate plans in the Berkshire region also include the building of a cog road to the top of Mount Greylock, the other terminal of which has not yet been definitely decided upon. None of these projects will be affected by the curtailment policy of the New Haven company regarding extensions. They form part of a large scheme of opening up the Berkshire region as a great summer resort."

PORT JEFFERSON, N. Y.—The Board of Highway Commissioners has signed a franchise for the Suffolk Traction Co. According to the terms of the franchise, operations on the cross-island trolley between this village and Patchogue are to begin immediately on the disappearance of the snow; the road is to be built, equipped and operated inside of two years, and the said company puts up a forfeit of $60,000 to insure compliance with the terms of the franchise. The spurs of the road from Patchogue east and west are mentioned, but no mention is made of the spur from Port Jefferson Village to Stony Brook, and is left to the traction company to build.

ELLWOOD CITY, PA.—A charter has been granted to the Belt Line Street Railway Co., of Ellwood City. Capital, $25,000. Company will build four miles of line over the more important highways of that city. The directors are: George W. Young, of Pittsburg, Pres.; J. E. Fitzgerald, Wm. Trinkle, Frank H. Kuhn, Oscar C. Glosser.

CHESTER, PA.—The Chester Traction Co., under a ruling of the Supreme Court, will depress its tracks between Chester and Darby for a distance of about six miles and macadamize the space between the tracks and also between the tracks and the road. J. A. Rigg is Pres. and Pur. Agt., Mariner & Merchants Bldg., Philadelphia.

BRUNSWICK, MD.—John S. Mallette, Ch. Engr. of the Brunswick & Middletown Electric R. R. Co., advises us that contracts probably will be awarded in June for building proposed trolley line from Brunswick to Petersville, Burkittsville, Broad Run and Middletown, 15 miles. W. Schnauffer, Brunswick, is Pres. Preliminary survey has been made and a considerable portion of right-of-way secured. Noted on Dec. 27.

SYKESVILLE, MD.—The managers of Springfield Hospital have decided to prepare plans and specifications, it is said, to build the proposed railroad from a connection with the Baltimore & Ohio at Sykesville to the hospital, about two miles. Dr. J. Clement Clark is Supt.

ROANOKE, VA.—The Roanoke Traction Co. of Roanoke has been chartered to build a street railway in Roanoke. Capital, $10,000 to $40,000. C. Markley is Pres.; Vice-Pres., C. G. Cannaday. Others interested are M. A. Riffe, J. T. Bandy, B. B. Dillard, R. C. Camp, G. R. Paris and J. A. Staff.

ONLEY, VA.—A company has been organized to build the proposed electric railway to connect Onancock, Onley, Tasley and Accomac, and also a branch line from Onley to Wachapreague. Officers of the company have been elected as follows: Spencer F. Rogers, Pres.; Joseph S. Bell, Treas.; T. W. Taylor, Secy.; directors, C. C. Long, Thomas S. Hopkins, Jas. N. Fletcher, Jr., John W. Edmonds, Dr. Ira N. Ayres, A. N. G. Mears, Dr. John W. Kellam, A. J. McMath, John W. Rogers, O. L. Parker, John S. Waples, R. L. Hopkins, N. W. Nock and E. J. Belonte. B. T. Gunter, Howard K. Powell and James N. Fletcher, Jr., were appointed a committee to secure the charter.

GRAFTON, W. VA.—The City Traction Co. will build an electric street railroad 2½ miles long. S. M. Faust, of Connellsville, Pa., has prepared plans. The company has organized by electing officers as follows: Pres., John T. McGraw, Grafton; Vice-Pres., D. S. Overholt, Scottdale, Pa.; Treas., C. E. Conway, Fairmont; Secy., T. A. Deveney, Grafton; Executive Board, D. S. Overholt, John T. McGraw, T. A. Deveney and C. E. Conway.

WASHINGTON, N. C.—The Board of Aldermen has granted a franchise to the Washington Investment Co. to build and operate an electric street railway with four miles of track.

LAURENS, S. C.—The city has granted a franchise to N. B. Dial and others to build and operate a street railway, the franchise to run for 50 years. Two miles of the road are to be built and operated within 18 months.

AMERICUS, GA.—We are officially advised the qualified voters at an election held on March 20th voted in favor of the mayor and City Council making arrangements for lighting city, furnishing electric power for waterworks and street railway line, etc. W. A. Dodson and associates, of Americus, have contract. The street railway line will be four miles long.

ARCADIA, FLA.—We are officially informed that a charter has been granted to W. B. Clay, of Arcadia, for an electric railway system, with a 25-year franchise. Cars are to be in operation within 15 months. Mr. Clay desires data on gasoline, electric and motor driven street cars, electric equipment, etc.

DOYLESTOWN, OHIO.—The following officers have been elected by the directors of the Orrville, Doylestown & Barberton Railway Co., recently incorporated: S. N. Brenneman, of Orrville, Pres.; C. S. Johnson, of Barberton, Vice-Pres.; J. P. Meech, Doylestown, Secy.; George Landan, Doylestown, Treas. The promoters of this road some time ago that they had the funds for building the road. Noted last week.

CRAWFORDSVILLE, IND.—The Nave has petitioned the County Co[mmissioners] to grant an election for the purpose of voting a subsidy to the Crawfordsville & Northwestern R. R. Co. The petition asks that the election be held in Logan Township, and the amount asked is $17,000, about 4 per cent.

INDIANAPOLIS, IND.—The Indianapolis & Western Railway Co. has filed amended articles of incorporation for the construction or extension of its line from Danville to Rockville by way of Bainbridge, and for an extension of its line from Rockville to Greene Castle, Brazil, Terre Haute. C. C. Reynolds is Mgr.

WHITE HALL, ILL.—The Illinois State Traction Co. has been formed with a nominal capital. The company proposes to construct an electric railway, with a connection at White Hall, Roodhouse, Athensville, Palmyra and Girard. The incorporators are: A. P. Grout, of Winchester; E. S. Kirby, of Jerseyville; E. S. Dunlap, of Jacksonville; H. C. Morrow, of Morrow, James Walker, of Scottville; W. H. Bowen, of Palmyra; W. H. Bowen, of Morrow, of Athensville, and H. C. Morrow, of White Hall.

MILWAUKEE, WIS.—The Milwaukee Western Electric Railway Co., which proposes to build an electric line to Pewaukee and other points west and northwest of Milwaukee, has changed its articles of incorporation so as to create 100 shares of $50 each instead of 70 shares of $100 each. The directors are also increased from five to nine. William Ross, a civil engineer, is president of the company, and H. J. Janzen Secy. George W. Scherauly is one of the incorporators. James F. Trottman, of Milwaukee, is also interested in the enterprise, according to the Milwaukee "Journal."

ALBIA, IOWA.—An election will be held April 17 to vote on granting an interurban franchise to the Albia Electric Light & Power Co. The company proposes to construct an electric line in Albia, running to Hocking, a mining town two miles south of Albia, on condition that Albia citizens take $25,000 worth of stock. The stock has all been subscribed except about $400. Noted on March 14.

CLINTON, IOWA.—The Iowa & Illinois Interurban Co. is planning the construction of an extension to Dubuque during the coming year. A preliminary survey has been made. P. P. Crafts is Gen. Mgr.

MANKATO, MINN.—An ordinance is now being considered by the City Council granting a franchise to construct and operate an electric street railway within the city limits and a lighting and steam or hot-water heating plant. The franchise is to be granted to W. L. Hixon and H. E. Hance, who will transfer it to the Mankato Traction Co. as soon as it is organized. Arthur J. Whipple, of Glencoe, Ill., and R. A. Pratt, of Chicago, represent the construction company which proposes to build the line, it is said.

PITTSBURG, KAN.—The Girard Electric Coal Belt Co. has been organized at Pittsburg, Kan. The line will penetrate rich Kansas coal fields, and will run from Girard to Mulberry. The following directors have been chosen: F. B. Higgie, James A. McFarland, H. H. Radley, Frederick D. Warren, E. N. Richardson, L. H. Phillips and J. A. Wayland. Officers are: Pres., James A. McFarland; Vice-Pres., J. A. Wayland; Secy., L. H. Phillips; Treas., Howard C. Leonard. The work of surveying the line to Radley, Dunkirk and Mulberry will be started soon.

FAYETTEVILLE, ARK.—J. W. Baxter is interested in the proposed electric railway company which is to connect the more important towns in northwestern Arkansas and operate street railways in each. Right-of-way and franchises are now being secured. Company is not yet incorporated. Its capital will be from $150,000 to $15,000,000, as demanded by the building of the road. J. T. Evins, of Fayetteville, and J. C. Bonnell, of St. Louis, are also interested.

SHERMAN, TEX.—The "Wall St. Summary," New York, states that the Texas Traction Co. has executed a mortgage to the Old Colony Trust Co. to secure an issue of $3,000,000 30-year 5% bonds subject to call at 110. The proceeds of the bonds will be used for constructing and equipping the new 90-mile line between Sherman and Dallas. Of the bonds $2,000,000 are issuable forthwith, the balance to be reserved for future requirements.

CORSICANA, TEX.—Survey has been completed for the Corsicana & Palestine Interurban Railway and construction is expected to begin soon.

EL RENO, OKLA.—J. W. Smith, Fred Ehler, of Hennessey, and W. R. Blackburn, Register of Deeds of Kingfisher County, have made application to State Secretary Charles H. Filson for the granting of a charter to the Oklahoma City, El Reno & Southeastern Interurban Railway Co. The principal place of business is named as El Reno. The company proposes to build a street railway system in El Reno and interurban lines from El Reno to Oklahoma City, Medford, Chickasha, Hobart and Lawton. Application has been made to the El Reno City Council for a franchise.

ENID, OKLA.—The Enid City Railway Co. has been chartered, with a capital of $500,000. The incorporators are: John J. Hall, Albert Emanuel and Charles H. Roster, of Dayton, Ohio, and Carl Kruse and William H. Hills, of Enid.

PORTLAND, ORE.—S. D. Adams and E. B. McFarland are reported to have made application to the City Council for a 25-year franchise for a street railway leading from Commercial St. over the hill to the county bridge across Young's Bay, where it is to connect with a railway running to Warrenton and New Astoria.

MEDFORD, ORE.—Messrs. Blakeley & Welch, of the Sterling Mining Co., have applied to the city of Medford for a franchise

for an electric railway to be built from Medford to Jacksonville. They also desire to take over the electric light and water-works system, which are now operated by the city, and operate them as a private enterprise.

HAMILTON, ONT.—The Dominion Power & Transmission Co. has elected the following directors and officers: Col. J. M. Gibson, Pres.; James Dixon and John Knox, Vice-Presidents; C. C. Hawkins, Gen. Mgr. and Secy.; J. B. Goodie, Treas.; J. W. Sutherland, S. O. Greening, Hamilton; Andrew Cook, Chicago.

EDMONTON, ALTA.—The committee appointed by the City Council to investigate the cost of the proposed electric railway to be built by the city finds that the cost will be as follows: Steel rails, $49,000; dividend as streets between tracks, $71,000; paving, construction, $224,000. Rails have already been ordered and work will be proceeded with as soon as weather permits. R. R. Keely is City Engr.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

HINSDALE, N. H.—We are officially advised that the Connecticut River Power Co. will begin work this spring upon construction of a dam across the Connecticut River from Cooper's Point, Hinsdale, to Vernon, Vt., five miles below Brattleboro, Vt. The dam will be constructed of reinforced concrete on solid rock foundation, with an 800-ft. spillway and a 26-ft. fall, and will develop about 12,000 HP. Cost will exceed $1,000,000. Clarke C. Fitts, Crosby Block, Brattleboro, is Atty. for the Citizens' Committee.

MANCHESTER, N. H.—We have been officially informed that a bill chartering the Spalding-Jones Power Co. and giving it the right to construct a dam 17 ft. high at Moores Falls, on the Merrimac River, eight miles below Manchester, N. H., was passed by the New Hampshire Legislature on March 19. The incorporators propose to establish a power station and furnish power for Manchester and Nashua; also to utilize a portion of the power for a fiber factory. About 10,000 HP. will be developed.

LOWELL, MASS.—The Lowell Electric Light Corporation has received a permit to erect a $100,000 building in Perry St., an addition to the plant already maintained by the corporation. The new structure, which will adjoin the one now in use, will be 75 × 108 ft., one story high. The height of the building will be 32 ft., and the structure will be of brick. Attached to the building will be a 195-ft. chimney. Norman T. Wilcox, Lowell, is Local Mgr. Stone & Webster, 84 State St., Boston, are Gen. Mgrs.

NEWARK, N. J.—The Common Council has adopted the recommendations made to the Special Committee of the Council in charge of the lighting plant for the new city hall, for installation of an electric lighting plant to cost, with switchboard and wiring complete, about $25,000, with two generators of 100-KW. capacity and one of 50-KW. capacity.

WEST POINT, PA.—The Montgomery County Rapid Transit Co., Norristown, Pa., has awarded contract to the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., for supplying generators and engines at a cost exceeding $60,000. George Hoegen, Norristown, is Pres. and Gen. Mgr.

PITTSBURG, PA.—The Joseph Horne Co., Penn Ave. and Fifth St., has commissioned MacClure & Spahr, Archs., Keystone Bldg., to prepare plans for a power-house and for a 6-story fireproof addition, 120 × 240 ft., at Fifth St. and Duquesne Way. The power plant will be started this fall and the store building next spring. Joseph B. Shea is Treas. of the company.

MAHANOY CITY, PA.—The Borough Council, it is reported, has awarded contract to the PEOPLES' LIGHT CO. for lighting the streets for a term of ten years.

CUMBERLAND, MD.—The Cumberland & Westernport Electric Ry. Co. has started work on construction of a power-house at Claryville. The building will be of brick, concrete and steel, 30 × 90 ft. A 550-HP. generator and 650-HP. boilers will be installed. J. E. Taylor, Frostburg, is Supt.; Daniel Shumm is Electrical Engr.

WASHINGTON, D. C.—Lieut. Poole, U. S. A., Superintendent of the State War and Navy Dept. Bldg., Washington, D. C., has awarded the following contracts in connection with the renewing of portions of the heating, lighting and power plant of the building: LAIDLAW-DUNN-GORDON CO., 114 Liberty St., New York, pumps, $14,950; EVANS, ALMIRALL & CO., 281 Water St., New York, heating and power piping, $14,000; BABCOCK & WILCOX CO., 85 Liberty St., New York, boilers, $15,644.

WASHINGTON, D. C.—It is officially announced that award will be made to S. FAITH & CO., 2427 Pennsylvania Ave., Philadelphia, for furnishing the power plant equipment for the new power-house of the Agriculture Department, for which bids were opened March 12. The bid of S. Faith & Co. was $78,000, but various deductions have brought it down to about $74,000. No award has yet been made on the power-house building.

PETERSBURG, VA.—Marcus R. Williams, of Poplar Mount, Va., is preparing plans for the construction of dam, canal and power plant for the development of electric power, to be constructed for the Nottoway Hydro-Electric Co., at a cost of $150,000. S. H. Turner is Secy.

ROWLESBURG, W. VA.—Bids for constructing the proposed electric light plant, for which $12,000 bonds were recently issued, will not be received until about July. H. R. Hollis is Town Recdr.

STATESVILLE, N. C.—The town has placed contracts with the WESTINGHOUSE ELECTRIC & MFG. CO., Pittsburg, Pa., and with the GENERAL ELECTRIC CO., for an outfit for the transformer stations to be erected in accordance with a contract with the Southern Power Co., which is to deliver electric energy in the town by June 1.

AMERICUS, GA.—See under Electric Railways.

MACON, GA.—The power to be developed by the Bibb Power Co. will be used for operating the lines of the Atlanta, Griffin & Macon and the Macon, Albany and Americus electric railway companies affiliated with the Bibb Power Co. Arthur Giesler, 29 Broadway, New York, N. Y., is Consult. Engr. Noted in issue of March 21.

Bids are asked until 3 p. m., April 29, by James Knox Taylor, Superv. Arch., Washington, D. C., for installing hot water heating apparatus for the U. S. court-house, post-office, etc., at Macon. (Advertised, Engineering News.)

JACKSONVILLE, FLA.—The contract for the electrical illuminating and power plant for Dixieland has been awarded to the FLORIDA ELECTRIC CO. The lighting scheme calls for 20,000 4-c. p. incandescent lights and a motor service for roller coaster, circular swings, etc.

PENSACOLA, FLA.—Plans and specifications are being prepared by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for furnishing and installing at the Pensacola Navy Yard, in connection with the new power plant at that yard, four water-tube boilers, 300 HP. capacity, operating at 150 lbs. pressure, one fuel economizer, two boiler feed pumps, one feed water heater and smoke flue, main and auxiliary piping, pipe covering, valves, meter, etc. At a later time the engines and generators will be called for.

SELMA, ALA.—F. M. Abbott, Pres. of the Selma Street & Suburban Ry. Co., has bought a tract of land on Oakmulgee Creek, ten miles from the city, upon which to erect a power plant for the generation of electricity for power and lights in the city of Selma and other towns nearby. It is reported that with the erection of the plant, Col. Abbott will run his lines from the city out to the power station, and thence to Summerfield, ten miles further.

NEW ORLEANS, LA.—The New Orleans Ry. & Light Co. has under consideration the question of constructing additional power-houses, and E. C. Foster, Pres., is making extensive inquiries regarding the matter.

OAKLEY (Cincinnati post-office), OHIO.—The Modern Factory Power Co., of Cincinnati, will erect a power building at Oakley, 75 × 90 × 32 ft., of brick, reinforced steel, composition roof, to cost $25,000. Power equipment will be installed later. Rapp, Zettle & Rapp, 607 Johnston Bldg., Cincinnati, are Archs.

DAYTON, OHIO.—The Dayton Lighting Co. is planning to double the capacity of its plant within the next year. F. M. Tait is Mgr.

COLLINWOOD, OHIO.—The city is contemplating installing a 350 to 400-KW. alternating-current, three-phase generator in the municipal electric lighting plant, to be in operation by May 30. C. G. Beckwith is Mgr.

HURON, OHIO.—The WARREN ELECTRIC MFG. CO., of Sandusky, Ohio, has secured contract for installing new generator at the municipal electric lighting plant. J. C. Britton is Ch. Engr.

BLANCHESTER, OHIO.—The citizens are contemplating extending the lines of the municipal electric lighting plant, it is reported, and installing 40 new street lamps. A. E. Doughman is Supt.

MOROCCO, IND.—According to reports, W. B. Harpole, owner of the electric light plant in this town, contemplates installing a new engine in his power-house.

INDIANAPOLIS, IND.—Vonegut & Bohn, Archs., Indiana Trust Bldg., are preparing plans and specifications for the erection and equipment of a power-house and lighting plant for the new Methodist hospital in this city. Bids for this work will be asked for in a short time.

SOUTH BEND, IND.—Improvements and extensions are contemplated for the local street railway system by the directors of the Chicago, South Bend & Northern Railway Co. More than $1,000,000 has been appropriated for the work to be done in this city.

HOLLAND, MICH.—The Board of Public Works contemplates enlarging the municipal electric light plant at a cost of about $30,000. A. E. McClellan is Ch. Engr., Holland.

ROCKFORD, ILL.—The Central Heat & Power Co. has been granted an extension of franchise and will enlarge its business by constructing lines to the east side of the river for supplying light and power. The company will increase its capital stock April 5 from $100,000 to $200,000 to make the improvements. W. E. Dewey is Mgr. and Ch. Engr.

MILWAUKEE, WIS.—The Board of Public Works and Council Advisory Committee have decided to receive competitive bids for both gas and steam machinery for the proposed municipal lighting plant. The cost of a 4,500-HP. plant with three 1,200-KW. direct-connected engine units is estimated at $380,000. H. S. Bowen is Engr.

KANSAS CITY, MO.—Bids are asked until March 29 by the Board of Public Works for steam heating and ventilating of the General Hospital. Also for the following special equipment: Boilers, automatic heat regulation, refrigeration and electrical equipment. Everett Elliott is Secy. Edgar A. Harper is City Engr.

OZARK, ARK.—The City Council has granted an electric light franchise for 15 years to the Altus Gin & Mfg. Co.

LAKE VILLAGE, ARK.—The City Council has decided to establish an improvement district, it is reported, for construction of water-works and an electric light plant.

AUSTIN, TEX.—The citizens of Austin voted March 18 to rebuild the dam, which was destroyed by floods in 1900. The Council will have to canvass the vote and then proceed to enter into a contract looking to the construction of the dam, which originally cost $700,000. The city has a proposition to build the dam for $2,000,000, to be paid in 40 years at the rate of $6,500 a year.

LA PORTE, TEX.—F. A. Peters and J. B. F. Robinson have been granted a franchise to construct an electric light plant here, the plant to be in operation within six months.

FORT SAM HOUSTON, TEX.—Bids are asked by L. J. Fleming, Constr. Q. M., until 11 a. m., April 4, for the following electrical work: Furnishing and installing electric lighting fixtures in the following buildings: Post exchange and gymnasium, post hospital, officers' club and two double stable guard and shop buildings; for the electric wiring in two double stable guard and shop buildings, and for furnishing pole lines and making service connections to all buildings before mentioned.

HOLLY, COLO.—The Holly Sugar Co. is planning to construct water-works and electric lighting systems in this town. Estimated cost, $40,000.

BELLINGHAM, WASH.—Stone & Webster, 84 State St., Boston, Mass., owners of the Whatcom County Railway & Light Co., are planning erection of an addition to their Nooksack Falls power plant, to cost $500,000. L. H. Bean is Local Mgr., Bellingham.

ELBE, WASH.—It is reported that H. E. Salisch will erect a large power plant on the Nisqually River near Elbe. Plans are being prepared by the Westinghouse Electric & Mfg. Co. for the complete electrical equipment and construction of the plant.

TACOMA, WASH.—The Pacific Traction Co. will erect a power plant, with 40,000-HP. capacity, in or near this city. B. J. Weeks, Tacoma, is Gen. Mgr.

SEATTLE, WASH.—The estimate for the installation of the cluster lights on Third Ave., Third Ave. South, Prefontaine Pl. and Fourth Ave. South, as prepared by R. H. Thomson, City Engr., is $104,100.

ABERDEEN, WASH.—It has been announced that the Grays Harbor Railway & Light Co. will begin work on an immense power-house at once near Electric Park, between this town and Hoquiam. This plant and other contemplated improvements will cost the company $250,000, and will improve and facilitate the service between Aberdeen, Hoquiam and Cosmopolis. Jay D. Crary, Aberdeen, is Gen. Mgr.

TUMWATER, WASH.—An electrical power plant will be installed by the Olympia Brewing Co. at Tumwater. It is designed to furnish light and power to the big brewery and to furnish lights to the town of Tumwater. As there is litigation pending that involves the greater part of the lower falls at Tumwater, the company will install engines.

PORTLAND, ORE.—The Mount Hood Electric Ry. Co. is having plans prepared by F. C. Finkle, Consult. Engr., for machinery for power-houses to be constructed on the Upper Sandy River. The specifications will be ready immediately and bids will be asked for electric equipment. The contract calls for the machinery for the first power-house, a $1,000,000 plant, which will provide for the manufacture of 25,000 HP., with the initial installation. Men are now at work fixing the power-house site and locating the reservoir and flumelines. E. P. Clark, 220 West Fourth St., and R. C. Gillis, Fay Bldg., Los Angeles, Cal., and A. P. Fleming, of Pasadena, are interested.

LOS ANGELES, CAL.—Bids are asked until 2 p. m., May 6, by the Board of Public Works for furnishing and erecting near Tehachapi, Kern County, Cal., for the city of Los Angeles, necessary boilers, engines, electric generators and motors for delivering 1,250 HP. electric current to the Los Angeles Aqueduct Cement Works. Horace B. Ferris is Secy. (Advertised, Engineering News.)

STOCKTON, CAL.—The American River Electric Co. has purchased a site in this city on which it will erect a power station, which will be used as an auxiliary to the main plant. C. W. Waller is Mgr.

INDEPENDENCE, CAL.—The first electric power plant on the Owens River aqueduct has been definitely decided upon, and specifications have been sent out for its immediate installation. This power plant will be located at the mouth of one of the little streams at the intake and will be put in operation at once, furnishing electricity to drive a hydraulic dredger. This dredger will dig the unlined ditch that forms the first 20 miles of the system above the intake. It will be floated on a scow and suck earth out to form an 8-ft. channel. One mile of this ditch already has been completed with teams and scrapers, but this method is found too slow and expensive.

HALIFAX, N. S.—We are officially advised that the HALIFAX ELECTRIC TRAMWAY CO. has secured contract for public lighting at $65 per 2,000-c. p. arc lamp. F. W. W. Doane is City Engr.

NIAGARA FALLS, ONT.—The Ontario Power Co. is preparing plans for enlargement of its power plant. Two additional generators will be installed of 12,500-HP. each. The extension will be 160 ft. long, and will be built of steel and concrete. W. N. Ryerson, Niagara Falls, Ont., is Supt.

KAKABEKA, ONT.—The Kaministiquia Power Co. will start construction of an additional reinforced concrete aqueduct or pipe at its hydro-electric power development at Kakabeka Falls, on the Kaministiquia River, near Fort William, Ont., it is reported. The plans and specifications have been prepared by Mr. J. A. Jamieson, Board of Trade Bldg., Montreal, and the work will be carried out under his directions, as consulting engineer for the company. R. S. Kelsch, Fort William, is Electrical Engr.

INGERSOLL, ONT.—The Town Council, Oshawa, has granted a 20-yr. franchise to W. C. Noxon, of Ingersoll, Ont., to operate electric light and gas plants here.

FORT ERIE, ONT.—Bids are asked until April 5 by B. F. Matthews, Town Clerk, for installing an electric lighting system in the village.

PRINCE ALBERT, SASK.—We are officially advised that the city has been granted lease of privileges by the Dominion Government, and will consider immediately the question of constructing dam and power plant to supply from 1,000 to 1,500 lights. C. G. Moon is City Engr. Noted in issue of Feb. 14.

The City Council has awarded contracts to GOLDIE & McCULLOCH, 325 St. James St., Montreal, Que.; ALLIS-CHALMERS-BULLOCK CO., Sovereign Bank Bldg., Montreal, and the CANADA FOUNDRY CO., Ltd., 81 Peters St., Montreal, for improvements and extensions to the electric lighting plant. Cost, $26,237.

WETASKIWIN, ALTA.—At a recent election the citizens voted to spend $30,000 in improving the electric lighting plant. Duncan McEarchan is interested.

LETHBRIDGE, ALTA.—The Lethbridge Electric Company is reported to have decided to expend $25,000 this year in improvements to its plant. M. Freeman is Managing Dir. The following officers were recently elected: F. H. Mewburn, Pres.; T. D. Kevin, Vice-Pres.; H. MacBeth, Secy. and Treas.

NEW WESTMINSTER, B. C.—W. V. Hunt, Vancouver, of the British Columbia Electric Ry. Co., Ltd., has been appointed engineer in charge of the work of installing the new water power units at Lake Buntington. Three units of 10,000-HP. each will be added at a cost of $250,000. It will take nine months to complete the work. R. H. Sperling, Vancouver, is Gen. Mgr.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

JERSEY CITY, N. J.—Bids are asked by the Board of Chosen Freeholders, Walter O'Mara, Clk., until April 4, for erecting viaduct in three sections to connect 14th St., Hoboken, and roads connecting.

SOMERFIELD, PA.—Bids are asked by Joseph W. Hunter, State Highway Comr., at Harrisburg, until April 11, for repairing stone bridge on National Pike over Youghiogheny River, at Somerfield.

BROOKWOOD, ALA.—The Southern Ry. Co., W. H. Wells, Washington, D. C., Engr. Const., will construct reinforced concrete bridge 90 ft. long and 75 ft. wide. Estimated cost, $21,500.

KNOXVILLE, TENN.—Bids will soon be asked by the Board of Public Works for repairing bridges. Estimated cost, $30,000. W. C. Crozer is City Engr.

OWENSBORO, KY.—The Owensboro & Rockport Terminal & Bridge Co. has been organized with a capital of $100,000 with power to incur an indebtedness of $1,000,000. The company will build a line from Owensboro to Rockport, Ind., to connect with the Southern Ry., and will erect bridge across Ohio River near Owensboro.

BRYAN, OHIO.—Bids are asked by the County Auditor until 11 a. m., April 6, for constructing the following bridges: Monopeller bridge, sub and superstructure; Reese bridge, 16 × 117 ft.; Bible bridge superstructure; Brown bridge, 14 × 53 ft.; Ritter, 14 × 53 ft.; O'Neal, 16 × 70 ft., sub and superstructure; Farnhorn, 16 × 70 ft., sub and superstructure; Replogle, 14 × 53 ft., sub and superstructure; East Griser, 14 × 57 ft., superstructure; Shambarger, Glover and Johnson bridges.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., April 13, for constructing steel concrete bridge and concrete bridge in Dover Township. A. B. Lea is County Surv.

DAYTON, OHIO.—Bids were recently received by the Board of County Commissioners for constructing abutments of Big Twin Creek Bridge as follows: Paul & Kershner, $6.78 per cu. yd.; Fanouer & Renick, $6.97; J. H. Morrison, $6.73; Dayton Construction & Engineering Co., $8.10. Estimated cost, $3,634.

MARION, OHIO.—The Board of County Commissioners may construct bridge over Little Scioto River, in Grand Prairie Township.

SALEM, OHIO.—Bids are asked by G. A. Sheets, County Audr., until 1 p. m., April 8, for furnishing material and constructing substructure for bridge to be located one mile west of Salem, on State Road between Salem and Damascus.

TIPTON, IND.—Bids are asked by the County Commissioners until 2 p. m., April 1, for construction of extension to bridge in Cicero Township.

FORT WAYNE, IND.—Bids are asked by the County Auditor until 10 a. m., April 10, for construction of steel bridge of two spans of 170 ft. each over Maumee River in Maumee Township. Also at same time bids will be received for two abutments and pier and concrete and creosoted floor.

GREENSBURG, IND.—Bids are asked by the County Commissioners until April 11 for constructing concrete arch bridge in Jackson Township. Frank E. Ryan is County Audr.

PORTLAND, IND.—Bids are asked by W. Lee Smith, County Audr., until April 2, for constructing 70-ft. steel leg bridge in Greene Township.

WABASH, IND.—Bids are asked until April 2 by the County Commissioners for constructing 35 concrete arch bridges, various sizes, concrete abutments for Day, Elliott and Craft bridges, abutments for two bridges west of Wabash, over Kentner Creek; bridge over Indiana Creek, east of Dora, and Ewing bridge. W. S. Davis is County Audr.

KOKOMO, IND.—Bids are being received by the County Commissioners for constructing reinforced arch bridge over Courtland Ave. W. L. Brown is County Audr.

MIDLAND, MICH.—The Council has awarded contract for erecting 300-ft. span bridge, with abutments and wing walls, to the JOLIET BRIDGE & IRON CO., Joliet, Ill., at $18,396. Bridge to be completed July 1.

CHIPPEWA FALLS, WIS.—The County Board is considering erection of bridge across Chippewa River. Estimated cost, $35,000.

VIRGINIA, MINN.—Bids will be asked soon by the City Clerk for constructing steel bridge across the narrows between Virginia and Silver Lakes.

STANTON, NEB.—The County Commissioners have awarded contracts to the STANDARD BRIDGE CO., of Omaha, Neb., for constructing and repairing wooden bridges.

YANKTON, S. DAK.—Bids are asked by David M. Finnegan, County Audr., until 2 p. m., April 2, for constructing wooden, steel, concrete and combination steel and concrete bridges during the present year.

GRAND FORKS, N. DAK.—The County Commissioners March 13 awarded contract to A. F. TURNER for constructing bridges during the present year.

KANSAS CITY, MO.—The PARKER WASHINGTON CO., 2309 Penn St., Kansas City, Mo., has been awarded contract for erecting concrete bridge over Brush Creek at 47th St. and Lydia Ave., at $13,800. F. P. Gossard is Secy. Bd. Park Comrs. Edgar A. Harper is City Engr.

FT. WORTH, TEX.—Bids are asked by C. J. McKenna, County Audr., until April 8, for constructing steel bridge, 100-ft. span, with necessary approaches, over Trinity River, at Fort Worth and Denton Road, running to Slocum and Easley.

PUEBLO, COLO.—The City Council on March 11 received bids as follows for constructing retaining walls of Main St. viaduct: West McIntyre, $12,734; Pueblo Bridge Co., of Pueblo, $13,780; John Houston, $13,865, and Piper Construction Co., $16,949. A. E. McIntosh is City Engr.

GARFIELD, WASH.—A bridge will soon be constructed across Silver Creek at this place.

PROSSER, WASH.—Bids are asked by W. S. Jenkins, County Audr., until 4 p. m., April 4, for reconstructing portion of Richland bridge across Yakima River. The work consists of erecting two spans 16 ft. wide and 124 ft. long of combination or steel, with four concrete piers.

WENATCHEE, WASH.—Bids are asked by the Board of County Commissioners, John Godfrey, Clk., until 2 p. m., April 11, for constructing two bridges, steel or combination pattern.

PENDLETON, ORE.—The Council is planning to build bridge on High St., between Causbie and Aura Sts. Thomas Fitzgerald is City Recorder.

PORTLAND, ORE.—The Pacific Ry. & Nav. Co. has awarded contracts to the PORTLAND BRIDGE & BUILDING CO., Worcester Bldg., Portland, for constructing 37 bridges on its line from Tillamook northeast to the 20-mile point. George L. Davis, at Hillsboro, Ore., is Ch. Engr.

PERRY, ORE.—P. S. EASTERDAY & CO., of Walla Walla, Wash., have been awarded contract for constructing 150-ft. steel span bridge, with steel tubular piers, across Grande River, at $6,914. J. B. Gilham is County Clk.

SHELLEY, IDAHO.—Bids are asked by the Board of County Commissioners, H. B. Curtis, Clk., at Blackfoot, until April 8, for constructing wagon bridge across Snake River, about two miles north of Shelley, to consist of three steel spans on masonry and tubular piers. The two spans at the north end of bridge are old material and are now in use across the Snake River at Idaho Falls. The contractor will remove these spans from their present location, haul them to new location and erect in place.

EDMONTON, ALTA.—The Provincial Government has passed estimates for the following permanent steel bridges to be erected this summer: Medicine Hat, $82,000; Old Man River, north of Pincher, $20,000; Bow River, Calgary, $25,000; Bow River, Gleichen, $35,000; Old Man River, Kipp, $15,000; Red Deer River at Red Deer, $25,000; Sheep Creek, $20,000 and $8,000; Rosebud, $30,000. Plans have been completed and bids for construction will be asked for soon. Hon. W. H. Cushing, at Calgary, Alta, is Minister of Works.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

BANGOR, ME.—The State of Maine is reported to have appropriated $30,000 for a new building for patients affected with tuberculosis; also $150,000 for a new wing at the Eastern Maine Insane Hospital, Bangor.

BOSTON, MASS.—R. C. Sturgis, 120 Boylston St., has started plans for a trade school building, to be erected at Appleton and Berkley Sts. The building will be one of brick and stone and cost $250,000. H. S. Pritchett, of the Massachusetts Institute of Technology, is on the committee.

BOSTON, MASS.—Fehmer & Page, Archs., 87 Milk St., Boston, have prepared plans for a brick armory for Charles A. Evans, 33 Equitable Bldg. Estimated cost, $250,000.

The Legislature is considering the matter of building an addition to the State House, at a cost of $1,250,000.

BRIDGEPORT, CONN.—Plans are being prepared, it is reported, by Meloy & Beckwith, Archs., 23 P. O. Arcade, Bridgeport, for a residence to cost $150,000.

NEW YORK, N. Y.—We are officially informed that Maximilian Zipkes, Arch., 147 Fourth Ave., has plans for two apartment buildings, on the north side of 110th St., west of Seventh Ave., for Harry Lehr. They will be 6-story elevator buildings, each 66.6x70.11, constructed of light brick, limestone and terra cotta, structural steel and iron, with fireproofing, tin roofs, electric and gas fixtures, etc. Contracts will be let in about three weeks. Estimated cost, $250,000.

Plans have been filed for a 14-story studio and apartment house to be built in 77th St., 150 ft. east of Columbus Ave., for the Russell Bond & Realty Co. Walter Russell is Pres. It will have a frontage of 100 ft. and a depth of 82 ft., with an extension. The facade will be of decorated limestone and brick, with trimmings of terra cotta. The building is to be equipped with two passenger elevators, and is to cost $750,000. Harde & Short, 3 West 29th St., New York, are Archs.

NEW YORK, N. Y.—Maynicke & Franke, Archs., 298 Fifth Ave., have prepared plans for a store and loft building, at 56 West 22d St., for Henry Corn, 320 Fifth Ave., to be leased to Higgins & Seiter, china dealers, 50 West 22d St. It will have twelve stories, 46 × 99 ft., will be constructed of light brick, limestone and terra cotta, structural steel and iron, with fireproofing, slag roof, bluestone coping, electric wiring, etc. Cost, about $250,000.

We are officially informed contracts will be let immediately for constructing a loft building to be erected at 31 and 33 West 21st St., New York, for the Acme Building Co., 32 Union Sq. The structure will have eleven stories, and will be of brick and marble construction, 56 × 90 ft. Estimated cost, $200,000. W. G. Pigueron, 32 Union Sq., is Arch.

CHARLES T. WILLS, 156 Fifth Ave., has the general contract for constructing 12-story light brick, limestone and terra cotta, steel skeleton, fireproof, slag roof, store, loft and office building, which the Bankers' Construction Co., 10 Wall St., will erect at 29-35 West 32d St. Clinton & Russell, 32 Nassau St., are Archs. Estimated cost, $900,000.

NEW YORK, N. Y.—We are officially advised that A. R. WHITNEY, JR., & CO., 135 Broadway, have general contract for the 20-story steel skeleton fireproof flatiron office building which the German-American Insurance Co., 35 Nassau St., will erect at the junction of Maiden Lane, Liberty and William Sts., from plans prepared by Hill & Stout, 1123 Broadway. The cost will be between $1,000,000 and $1,200,000.

Harde & Short, 3 West 29th St., have prepared plans for an apartment building, to be erected at the corner of Madison Ave. and 66th St., for the Parkview Co., 200 West 57th St. The building will be 100.6 × 100 ft., with ten stories, of brick and stone construction, and will cost about $1,000,000. C. S. Rogers is interested.

BUFFALO, N. Y.—The city and county officials have authorized the preparation of a bill to be acted upon by the State Legislature, empowering the County of Erie to borrow $1,000,000 for purchasing a site and the erecting of a court-house. This step is necessary to relieve crowded conditions now existing in the City Hall, in which the county offices and court rooms are located. George H. Kennedy is County Atty.

TRENTON, N. J.—The City Hall Commission is reported to have selected the plans of Spencer Roberts, 1524 Chestnut St., Philadelphia, Pa., for the new city hall which is to be erected on the armory site, to be three stories high, 210 × 70 ft., and to cost about $800,000.

MONTCLAIR, N. J.—The Common Council is reported to have adopted recommendations submitted by the Board of School Estimates, that an appropriation of $175,000 be made for erecting a grammar school at Montclair.

BAYONNE, N. J.—Manager E. A. Schiller, of the Bayonne Theater, 23d St., has announced that the Bayonne Amusement Co., of which he is the Pres., would break ground within the next two weeks for the erection of a $150,000 theater at Ave. C and 26th St., in that city. It will be known as the Bayonne Opera House. The structure will be 158 × 160 ft. Besides the theater the building will contain a large hall and rathskeller. It will seat 1,700 persons. It is planned to open it on Oct. 1 next.

CAMDEN, N. J.—We are officially advised that the following contracts have been let by the Board of Education for constructing schools in Camden: TURNER & STEWART, 828 Broadway, one 12-room building, $44,374; GEORGE BADMANN, two 12-room buildings, $44,125 and $44,777, respectively; LARSON CONSTRUCTION CO., one 8-room building, $28,004. Total, $161,280. Seymore & Paul A. Davis, 1600 Chestnut St., Philadelphia, are Archs.

ATLANTIC CITY, N. J.—The Pennsylvania R. R. Co. plans to erect a new passenger station here, besides new baggage and freight depots. The improvements contemplated will cost nearly $500,000. Alex. C. Shand, Philadelphia, is Ch. Engr.

PITTSBURG, PA.—It is reported that the Common Council has passed ordinance appropriating $250,000 for a Carnegie library. An ordinance has been passed by Select Council appropriating $393,000 for erection and equipment of engine houses and police stations, macadamizing streets, etc.

PHILADELPHIA, PA.—Watson & Huckel, Archs., 1211 Walnut St., have been commissioned to prepare plans for a $150,000 flat building, to be erected at 41st St. and Baltimore Ave. It will be 4-story, of brick and terra cotta, 76 × 160 ft.

W. S. Vaux, Arch., Bailey Bldg., has secured a permit to erect a brick warehouse and office building for Grellet Collins, at Sixth and Cherry Sts. The building will be 116 × 99 ft., eight stories high, and will cost $124,000. JOHN G. BROWN is reported to have the contract.

Wilson, Harris & Richards, Archs., Drexel Bldg., have plans ready for bids for a 6-sty store and office building, to be built at 17th and Chestnut Sts., for the American Baptist Publication Society. Brick, terra-cotta and steel will be used in construction, with slag roof, open plumbing, tile and marble work, plate glass, electric light fixtures, etc. Estimated cost, $250,000.

Furness, Evans & Co., Archs., Provident Bldg., Philadelphia, have awarded contract to J. E. & A. L. PENNOCK, Indian Queen Lane, Philadelphia, for three buildings to be constructed at 1403, 1405 and 1407 Chestnut St., for the Girard estate.

WILKES-BARRE, PA.—Estimates have been submitted to Albert E. Westover, Arch., for a theater of fireproof construction, to cost about $175,000, to be erected from his plans in Wilkes-Barre for S. Z. Poli. The building is of highly ornamental desgin, and will seat 2,200. The auditorium, 117x91 ft., which will contain parquet and circle, a balcony and one gallery, will be reached through a lobby 20 ft. wide and 110 ft. long, leading from South Main St. and there will be a wing 31x20 ft. at its junction with the auditorium, which will contain smoking rooms, ladies' parlor, dining-rooms, etc. The stage will measure 37.6x91 ft.

WILKES-BARRE, PA.—The County Commissioners intend advertising for bids soon for the marble work and interior decorations for the Luzerne County Court House. The cost will be about $500,000. McCormick & French are Archs.

WILMINGTON, DEL.—We are officially advised that F. M. Day & Bro., 925 Chestnut St., Philadelphia, have been selected to prepare plans for the proposed Y. M. C. A. building to be erected here. The building will be constructed of brick, with stone trimmings, 80x106 ft., having five stories and basement. Contracts will be let about May 1. Estimated cost of building, $160,000; equipment, $40,000.

BALTIMORE, MD.—Plans are being prepared by Wyatt & Nolting, Archs., Keyser Bldg., for constructing a hospital for the Harriet Lane Home for Invalid Children. The structure will be fireproof, of stone and brick, two stories high and will cost about $150,000.

WASHINGTON, D. C.—O. G. Staples, National Hotel, will begin the erection within the present year of a hotel, to cost $1,000,000, corner of 15th St. and Pennsylvania Ave.

WASHINGTON, D. C.—The GEORGE A. FULLER CO., Munsey Bldg., Washington, have been awarded the contract for extensive alterations and additions to the residence at 15th and I Sts., of John R. McLean, 1509 I St., N. W. The present house will be rebuilt and addition made on I St. It will be Italian style of architecture, designed by John Russell Pope, 1133 Broadway, New York. Improvements will cost about $150,000.

The contract for constructing the new Masonic Temple for the Masonic Temple Association, at the intersection of New York Av., 13th and H Sts., has been awarded to the THOMPSON-STARRETT CO., Commercial National Bank Bldg., Washington, its bid of $344,000 being the lowest received. The other bidders for the work were Norcross Bros. Co., $369,000, and George A. Fuller Construction Co., $357,000. Thomas P. Morgan, 1333 F St., is interested.

CHARLOTTE, N. C.—The Commercial National Bank contemplates erecting an 8-story steel bank and office building at a cost of $150,000.

JACKSONVILLE, FLA.—A Y. M. C. A. building, to cost $150,000, is to be built at the corner of Laura and Duval Sts. Work of erection will be commenced at once.

It is reported that the Buckman office building, which will cost $150,000, will be five stories in height and will be situated on the corner of Hogan and Forsyth Sts., will soon be commenced. Plans have been filed with the Building Commissioner asking for a permit to erect the building.

JACKSONVILLE, FLA.—Bids will be asked for construction of Y. M. C. A. building in the summer. Estimated cost, $150,000. H. J. Kluthe, Underman Bldg., is Arch.

BIRMINGHAM, ALA.—The EVANS BROS. CONSTRUCTION CO., of Birmingham, has secured the contract to erect a 4-story, 140 × 250-ft. warehouse at Ave. A and 18th St., for the Wimberly & Thomas Hardware Co. The total cost of the building, it is stated, will be about $150,000.

BIRMINGHAM, ALA.—Richard W. Massey will erect apartment-house costing between $100,000 and $125,000 on site 100x132 ft. Structure will be built in form of letter H, five stories high, of brick, stone and terra cotta, contain 24 apartments and equipped with passenger and freight elevators, telephone service, hot and cold water, gas and electric plants. The corridors will be finished in white Alabama marble and corridor floors will be of marble. William C. Weston, First National Bank Bldg., is Arch.

NEW ORLEANS, LA.—The New Orleans "Item" states that "the $200,000 passenger depot to be erected by the New Orleans Terminal Co., on the neutral ground in Basin St., will be along the lines of the proposed plans for a $125,000 station. It is stated that the increase in the price of building material and cost of labor since the plans were made nearly two years ago will now bring it up to nearly the amount stated. The entire front of the building will be constructed of white marble. Its walls of light pressed brick and stone with marble trimmings." W. C. Dotterer, New Orleans, is Gen. Mgr.

NEW ORLEANS, LA.—It is reported that a 6-story apartment house is to be erected at Canal and Mafais Sts., by N. W. Murphy, Pres. of the Louisiana Export, Lumber & Box Co. It will be 86x141 ft., and cost $200,000.

MEMPHIS, TENN.—Jones & Furbringer, Archs. Porter Bldg., are preparing plans and will take bids soon for a 6-story bank and office building, 21x74 ft., to be erected at Main St. and Adams Ave., for the North Memphis Savings Bank, 175 North Main St. Enameled brick, terra cotta, structural iron and steel work, will be the material used for construction, with plate glass, marble and tile work, water closets, washstands, etc. Estimated cost, $125,000.

CHATTANOOGA, TENN.—Rock excavations have been about completed, it is reported, for Hotel Patten, and are ready for steel superstructure. The building to be eleven stories high, 170x120 ft.; cost to be about $500,000. GEORGE BAKER LONG, Chattanooga, has contract for entire work, including mechanical equipment; W. T. Downing, Prudential Bldg., Atlanta, Ga., is Arch.

LEXINGTON, KY.—Bids asked until April 5, by Richards, McCo & Bulford, Archs., Ruggery Bldg., Co , Ohio, for erecting a 250-room hotel the Phoenix Hotel Co. Cost, $300,000.

CINCINNATI, OHIO.—Gu W. Brack, Union Trust Bldg., has been ined to pre- pare plans for hospital ings, to be erected at Clifton and Dixm ves., Clifton for the Sisters of Charity, 1 d Pendleton Sts. The hospital will be t threes sec- tions. Cost, about $250,000 ions will be out in about 60 days.

DAYTON, OHIO.—HARW & SPELL- ING, Toledo, Ohio, have sec the contract for the erection of the Par to be erected here at their bid o 000. Con- tracts for decorative work ating and plumbing will be let later by firm. W. H. McElfatrick, 1402 Broad New York, is Arch.

CLEVELAND, OHIO.—Bids be called for soon by the Board of Pu Service for constructing the West Side M for which an appropriation of $165,000 been made. W. J. Carter is City Engr.

LIMA, OHIO.—Dawson & ughlin, of Lima, have been selected as ar ects for the proposed Memorial Hall, wh will cost $130,000. The structure will ain lounging rooms, assembly rooms, military de- partment and an auditorium d ded to seat 2,300 persons.

INDIANAPOLIS, IND.—D. H. urnham & Co., Railway Exposition Build Chicago, are taking figures for a bank an office build- ing, to be erected at Indiana olis for the Indiana Trust Co., T. P. Frenz Pres. The building is to be 14 stories, 67x167 ft., built of brick, stone, steel and terra cotta, wan plate glass, oak and birch finish, maple floors, nickel plumbing and sheet metal work. Esti- mated cost, $200,000.

EVANSVILLE, IND.—The School Board of this city is preparing for the construction of several school buildings. Aggregate cost, $150,000.

GREEN BAY, MICH.—Bids were opened March 23, at the office of James Knox Taylor, Superv. Arch., Washington, D. C., for construction of a post-office building at Green Bay, Mich. Bids were: Northern Construction Co., Milwaukee, Wis., $115,534, 20 months; General Construction Co., Milwaukee, Wis., $129,323, 20 months; Charles W. Gindele Co., 3333 La Salle St., Chicago, $122,200, 20 months; Hanson Bros., 30 Dearborn St., Chicago, $144,992, 22 months; Foster Construction Co., Milwaukee, $139,637, 17 months; J. P. Cullen Construction Co., Janesville, Wis., $127,450; P. M. Hennessey Construction Co., New York Life Building, St. Paul, Minn., $136,376, 22 months; Hinkley & Power, Green Bay, Wis., $116,192, 22 months; Oley H. Olsen, Stillwater, Minn., $134,650, 22 months.

CHICAGO, ILL.—M. Born & Co., Franklin St. and Charles Pl., wholesale tailors, contemplate the erection of a store and loft building at 340 Fifth Ave. for their own occupancy. The proposed building is to be 10-story, 63x120 ft., and will cost about $250,000.

CHICAGO, ILL.—The Corn Exchange National Bank, Rookery, has leased ground at 163 to 167 Adams St., and will use the property as part of the site for a bank and office building. The building will be 16 stories high and will cost $2,000,000. Shepley, Rutan & Coolidge, 84 Van Buren St., are Archs.

MINNEAPOLIS, MINN.—PIKE & COOK, 416 South Fifth Ave., have been awarded the contract for erecting a building for the Minneapolis Club at Eighth St. and Second Ave., South. Estimated cost, $200,000. Tracy & Swarthout, 156 Fifth Ave., New York, are Archs.

ST. PAUL, MINN.—The contract to erect the superstructure of the Y. M. C. A. Building, at Ninth and Cedar Sts., is reported to have been awarded to GEORGE J. GRANT, 61 East Ninth St. The total cost of the building is to be about $350,000.

TOPEKA, KAN.—The Kansas Legislature has lately passed a bill appropriating $780,834 to the state university. Of this amount, $490,000 is to be used for the maintenance of the university and the balance is for the erection of new buildings. A general engineering building costing $150,000, a mining engineering building to cost $50,000, a power plant to cost $50,000, and a repair shop to cost $7,750 are among the new improvements.

OMAHA, NEB.—John Latenser, Arch., Bee Bldg., has let the general contract to the CAPITAL CITY BRICK & PIPE CO. for constructing a 5-story press brick, stone and steel hotel, 132x132 ft., for Rome Miller, to be erected at 10th and Jackson Sts. Cost, $135,000.

BUTTE, MONT.—Plans are being prepared by Link & Haire, Silver Bow Block, for a $300,000 Y. M. C. A. building, to be erected here.

ST. LOUIS, MO.—Bids have been opened for the Baden School building, to be erected at Halls Ferry Road and Newby Ave. The following are the lowest bidders: General construction, Wall Bros., 2707 Arlington Ave.; plumbing, William M. Clancy Plumbing Co., 1010 North Taylor Ave. Cost, $180,000.

Mauran, Russell & Garden, Archs., Chemical Bldg., are preparing plans for an 8-story mercantile building, to be erected on Washington Ave., near 13th St., for the Lesan & Gould Publishing Co., 316 North Eighth St. Brick, stone and reinforced concrete will be used for construction, with skylight, plate glass, marble and tile work, composition roof.

INDEPENDENCE, MO.—The Board of Jackson County Commissioners contemplates erecting a brick and stone hospital building, to cost $250,000. J. L. Phelps is County Clerk.

HOT SPRINGS, ARK.—The School Board has awarded contract for the erection of the new Central school building to C. W. CLARK, of Little Rock, his bid being $160,000. The contract for furnishing and installing the heating apparatus was awarded to M. J. MURPHY for $4,598. J. W. MILLMINE sub-

mitted the lowest bid on the plumbing and his offer was accepted. He is to receive $3,025.

TACOMA, WASH.—According to press reports the Northern Pacific Ry. Co. will begin soon a general readjustment of its terminals, the erection of the $750,000 passenger depot, improvements costing $250,000 at the South Tacoma blacksmith shops, double tracking of the line between Tacoma and Seattle, and other improvements. A. R. Cook, Tacoma, is Div. Engr.

BREMERTON, WASH.—The Navy Department, Washington, D. C., is preparing plans for a $[illegible],000 hospital at the Puget Sound Navy Yard, which will accommodate 100 patients.

SAN FRANCISCO, CAL.—We are officially advised that the THOMPSON-STARRET CO., 49 Wall St., New York, have contract to construct the building of the Olympic Club, 1050 Eddy St. The structure will be erected on the northeast side of Post St., near Mason St., and will cost about $125,000. W. S. Dyndiddle, 558 Sutter St., San Francisco, is in charge of construction. Henry A. Schultze, 604 Mission St., San Francisco, is Arch.

A 4-story hotel building, to cost $750,000, will be erected by Davis Lounderback to cover a lot 137.5 ft. square on the corner of Eddy and Leavenworth Sts. The hotel will contain 200 rooms.

SALT LAKE CITY, UTAH.—The corner property at the intersection of Third, South and West Temple Sts., purchased lately by Frank J. Hagenbarth, of Salt Lake, is to be the site of a 10-story office building, to be erected, owned and used as a home office by the Continental Life Insurance Co., of Salt Lake City.

MONTREAL, QUE.—A new theater is to be built on St. Catherine St., by Mark Workman. Finely & Spence are Archs. Work will begin in May and the cost of the structure is placed at $250,000.

TORONTO, ONT.—The proposed fireproof office building, corner Victoria and Queen Sts., to be erected by the Confederation Life Association, is to be constructed at once under the supervision of J. Wilson Gray, Arch., Confederation Life Bldg. It will be eight stories, and the design will be such as to harmonize with the present head office building of the Confederation Life. The cost is $300,000.

SOURIS, MAN.—The SOURIS CONSTRUCTION CO. has secured the contract from the Candian Pacific Ry. Co. for erection of 31 section houses and 20 stations.

WINNIPEG, MAN.—The Department of Public Works, Ottawa, Ont., is preparing plans for a $150,000 examining warehouse to be erected here this summer, bids for which will be called shortly. Fred Gelinas is Secy., Ottawa.

Bids are asked by Fred Gelinas, Secy. of the Dept. of Public Works, Ottawa, until April 4, for erection of a sub-postal station in this city. Estimated cost, $100,000. Joseph Greenfield is Res. Arch.

EDMONTON, ALTA.—Percy Barnes, Arch., is preparing plans for Secord & York for a 200-room hotel to replace the Windsor, recently destroyed by fire. It will be five stories high, fireproof, steel skeleton construction throughout, terra-cotta partitions, concrete floors, with exterior walls of pressed brick and stone trimmings.

Johnson & Lines, Edmonton, have been selected to prepare plans for the proposed civic hospital, which will cost $150,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

HANCOCK, N. H.—The State Legislature has granted the city authority to construct, own and maintain water-works system. W. D. Fogg, C. M. Sheldon and Chris. H. Duncan have been elected water commissioners. A. W. Dudley, at Manchester, N. H., is Engr. Bids will soon be asked.

LACONIA, N. H.—The contract for constructing Perley Canal has been awarded to the AUSTIN ENGINEERING & CONSTRUCTION CO., Boston, Mass. The work consists of constructing 361 ft. of reinforced concrete conduit 8 ft. wide and 5 ft. 2½ ins. high, to take place of present stone and wood conduit; constructing two sewer siphons and changes to water, gas, telephone conduits, etc. Charles A. French is City Engr.

BURLINGTON, VT.—The question of installing a filtration plant is being discussed. Frank O. Sinclair is City Engr.

SWANTON, VT.—A. G. Webster, D. G. Furman and A. E. Carr have been appointed a committee to act with the Village Trustees in installing complete water supply system. Bids will soon be asked for this work. Plans have been prepared by John L. Collins, C. E., of Albany, N. Y. The supply will be taken from Fairfield Pond. Estimated cost, $75,000. L. A. Lapelle is Town Clk.

FALL RIVER, MASS.—The Watuppa Water Board, William Biltcliffe, Pres., has awarded contract to WALSH BROTHERS' STEAM BOILER WORKS, Holyoke, Mass., at $12,000, for constructing steel water tank 65 ft. in diameter and 56 ft. high. Bids were also received as follows: Globe Steam Boiler Co., Chicago, $22,500; Walsh Brothers Steam Boiler Works, Holyoke, $14,350 for iron, and $12,000 for steel; Tibbet & Wood, Georgia, $17,960, iron, and $16,980, steel; Chicago Bridge & Iron Works, 105th and Throop Sts., $19,600; Hodge Boiler Works, 72 Mason Bldg., Boston, $16,649, iron, and $15,849, steel. Patrick Kiernan is Supt., Fall River Water-Works.

CORNING, N. Y.—The contract has been awarded by the Board of Water Commissioners to BRADLEY & NOLAN, of this city, for constructing reservoir and impounding basin and repairing present reservoir, at $37,787. J. VAUGHN, of Stamford, N. Y., secured contract for laying pipe, setting hydrants and valves. Estimated cost, $18,441.

NEW YORK, N. Y.—Bids are asked by John H. O'Brien, Comr. Dept, Water Supply, Gas and Electricity, until 2 p. m., April 10, for (A) hauling and laying a 48-in. water main and appurtenances in Fort Greene Park; (B) sinking shallow wells and driving deep wells; (C) furnishing, constructing and erecting concrete culvert and doing all grading, sodding, etc., required at the new Gravesend pumping station, near Avenue S and East 16th St., in the Borough of Brooklyn.

SCHENECTADY, N. Y.—The Board of Contract and Supply has awarded contract for laying 45,938 lin. ft. c.-i. water mains in various streets to JOSEPH CLEMENTS & SON. L. B. Sebring is City Engr.

PERTH AMBOY, N. J.—The Rosenthal Handkerchief Co. has let contract to HARDIMAN & DIEDRICKSEN for connecting 6-in. water pipe into building on New Brunswick Ave.

McKEESPORT, PA.—Bids are asked by C. E. Soles, City Controller, until 2 p. m., April 16, for (A) laying 8, 12, 20, 24 and 30-in. mains, including intake line; (B) constructing mechanical filtration plant and building of 6,000,000 gallons daily capacity; (C) constructing water softening plant and building of 10,000,000 gallons daily capacity; (D) erecting chemical storage building; (E) 400-HP. boiler; (F) two 7,000,000 low lift centrifugal pumping engines, five smaller pumps, two water meters; (G) elevator. Alexander Potter, 143 Liberty St., New York, is Engr. (Advertised, Engineering News.)

BECKLEY, W. VA.—The Beckley Electric Light & Power Co. will install system of water-works. John Sueffer is Mgr.

FT. MOULTRIE (Moultrieville post-office), S. C.—Bids are asked by W. N. Michel, Q. M., until 11 a. m., April 24, for constructing extension of water distributing system to Batteries Capron, Thomson and Gadsden. (Advertised, Engineering News.)

HARTSVILLE, S. C.—See under Sewerage.

DECATUR, GA.—The city has awarded contract to WALTON & MANGUM, Atlanta, Ga., for installing machinery at pumping plant and laying pipe-line, at $10,600. Work to be completed October 1.

MADISON, GA.—A water-works system will be constructed.

GUNNISON, MISS.—The city will soon install water-works system.

IRONTON, OHIO.—The HARRISON CONSTRUCTION CO., 837 Broad St., Newark, N. J., has been awarded contract for laying 4,500 ft. of 20-in. c.-i. submerged pipe, and constructing five well clusters in bed of Ohio River. Alexander Potter, 143 Liberty St., New York, is Engr.

JACKSON, MICH.—Bids are asked by the Board of Public Works until 7.30 p. m., April 3, for furnishing 120 tons of 4, 6 and 10-in. standard c.-i. water pipe and necessary specials, hydrants and valves. T. F. Harrison is Supt. A. B. Stevens is City Engr.

CHICAGO, ILL.—GEORGE W. JACKSON & Co., of Chicago, have been awarded contract for constructing water-works plant at Bond Ave. and 73d St.

ROCK ISLAND, ILL.—Bids are asked until April 20 for constructing levees, drains and pumping station in Drury Drainage District. Wallace Treichler is Engr.

VANDALIA, ILL.—Bids are asked by Albert & Roe, of Vandalia, Attorneys of Wild Cat Drainage District, until April 16 for constructing main ditch and laterals, aggregating approximately 157,150 cu. yds. P. E. Fletcher, of Vandalia, is Engr.

MILWAUKEE, WIS.—The Wisconsin Valley Improvement Co. has been organized for the purpose of constructing reservoir system on the tributaries of the Upper Wisconsin River. A bill is now before the Legislature to grant the company authority to establish such a reservoir system. George A. Whitney is Pres.; G. D. Jones, Secy.

CUSHING, IOWA.—Bids are asked by R. J. Pattison, Recorder, until 7.30 p. m., April 1, for constructing water-works system.

SOLON, IOWA.—Bids are asked by F. N. Myers, City Clk., until April 5 for extending water mains 635 ft.

FT. DODGE, IOWA.—N. T. OLESON, Callender, Iowa, has been awarded contract for 1,600 lin. ft. 10 to 20-in. tile work. The contract for dredging 72,798 cu. yds. has been let to O. P. HERRICK, Des Moines, Iowa. This work is in Drainage Districts 12 to 38, Webster and Calhoun Counties. T. L. Easley is Engr.

WILMONT, MINN.—Bids are asked by the Village Council until April 9 for constructing water-works. J. J. Weitzel is Recorder.

BRAINERD, MINN.—The contract for constructing Ditch No 13 has been awarded to A. D. PETERSON, of this city, at $4,975. T. F. Smart is County Audr.

BATTLE LAKE, MINN.—A water-works system will be constructed.

VALLEY CITY, N. DAK.—Bids are asked by the Drain Commissioners until 4 p. m., April 13, for constructing drain about six miles in length, requiring removal of 30,022 cu. yds. of earth. John Logan, at Rogers, N. Dak., is Secy.

BELLE FOURCHE, S. DAK.—Bids are asked by the U. S. Reclamation Service until April 30, for construction of about 65 miles of lateral ditches with structures, in connection with Belle Fourche Irrigation Project, S. Dak. The work involves approximately 545,000 cu. yds. of excavation, 1,960 cu. yds. concrete, and 110,000 ft. B. M. of lumber.

BLOOMFIELD, MO.—The Bloomfield Electric Light, Heat & Power Co. may install water-works and hot-water system.

PINE BLUFF, ARK.—Pine Bluff Light & Water Co., F. G. Bridges, Pres., will make extensive improvements to water-works, including the erection of new plant at pumping station, construction of water mains to surround water district of town, etc.

LAKE VILLAGE, ARK.—See under Light and Power Plants.

MAYPEARL, TEX.—A water-works system will soon be constructed.

LA PORTE, TEX.—F. A. Peters and J. B. F. Robinson have been granted franchise to establish water-works system, the consideration being that the plant would be in operation within 18 months.

WINCHELL, TEX.—The Winchell Water-Works Co., capital $10,000, has been chartered. Incorporators: L. W. Preddy, J. B. Hunter, J. D. Blacklock, R. L. Matthews and J. W. Holland.

WELEETKA, IND. T.—Plans are being prepared for improving water-works.

PUEBLO, COLO.—F. C. Thornton has purchased, at $5,500, from F. C. Paige and Minnie Paige, a number of acres of land in Township 18 to construct a dam across Young Hollow to form a reservoir. He acquires rights-of-way for railroad spurs, roads, etc., necessary to the construction of the dam and reservoir, and secures all sand and gravel needed, and sole and perpetual right to use all lands lying under high-water line of proposed reservoir.

DENVER, COLO.—The Thatcher & Russell Ditch & Reservoir Co. has been incorporated. The company will construct a canal 22,000 ft. long, to irrigate 3,200 acres of arid land in Township 21, in Denver County. The main water supply will be secured from Huerfano River, and the first dam and galleries will be constructed in the bed near headgate to check the underflow.

BELLINGHAM, WASH.—The City Water Board has employed W. T. Chalk, C. E., of Seattle, Wash., to make surveys for water-works to be constructed within 18 months. Estimated cost, $500,000.

MEDICAL LAKE, WASH.—Bids will soon be asked for extending water-works system from corner of Lake and Washington Sts., 1,000 ft. south on Washington St.

AZUSA, CAL.—The B. R. DAVISSON CONSTRUCTION CO., of Monrovia, Cal., has been awarded contract for constructing reservoir.

STOCKTON, CAL.—The proposed diverting canal, to carry mountain water around city into Calaveras River, will cost about $280,000. Maj. Wm. W. Harts, Corps Engrs., U. S. A., San Francisco, is Engr. J. M. Eddy is Secy., Chamber of Commerce.

ASTORIA, ORE.—Bids are asked by the water Commission until May 2 for constructing either 100,000,000 or 220,000,000-gallon storage reservoir at headworks of water-works system on Bear Creek. Three sets of plans and specifications have been prepared, and estimated cost of each is $55,000, $75,000 and $90,000, respectively.

PORTLAND, ORE.—Bids are asked by the Water Board, Frank T. Diedge, Supt., until 3 p. m., April 10, for furnishing and delivering f. o. b. cars Portland, whole or any portion of the following approximate quantities of c.-i. water pipe and special castings: 1,095 lengths 6-in.; 2,545 lengths 8-in.; 1,752 lengths 12-in.; 538 lengths 16-in.; 479 lengths 20-in. c.-i. pipe; total weight, 2,650 tons, and 160,000 lbs. special castings. D. D. Clarke is Engr. of Water Bd.

RICHMOND, QUE.—Bids are asked by E. F. Cleveland, Secy.-Treas., until 1 p. m., March 30, for furnishing approximately 342 tons of c.-i. water pipes and tees, bends, valves, etc. B. D. McConnell is Engr.

WELLAND, ONT.—A water-works system will be constructed. Cost, $70,000.

LONDON, ONT.—The Water Commissioners have decided to spend $36,750 for service and extending water mains.

ELMIRA, ONT.—We are officially advised that the following bids were received Feb. 21 for furnishing (A) c.-i. pipe and (B) special castings for water-works: Gartshore-Thomson Pipe Co., Hamilton, (A) $37.50 per ton, and (B) $3.25 per hundred lbs.; Canada Foundry Co., Toronton, Ont., (A) $38.00, (B) $3.35; Canadian Iron & Foundry Co., Montreal, Que., (A) $41.00, (B) $3.50; John T. Farmer, Montreal, Que., (A) $40.00, (B) $3.40. Hurbert J. Bowman, at Berlin, Ont., is Engr.

WETASKIWIN, ALTA.—The ratepayers have passed a by-law to provide $150,000 for constructing water-works and sewerage systems.

BRANDON, MAN.—Bids will soon be asked by the City Council for furnishing the following water-works supplies: 200 ½-in. corporation stops, 240 ½-in. curb stops, 15,000 lbs. ½-in. lead pipe, and 240 service boxes. W. H. Shillinglaw is City Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

CANAAN, CONN.—Bids are asked until noon, April 8, for furnishing material and constructing Section 2 of Piping Section of Sewers. The work includes about 2¼ miles of pipe sewers, from 6 to 12 ins. in diameter, with manholes and other appurtenances. J. F. Bliss is Boro. Warden. E. Worthington is Engr. (Advertised, Engineering News.)

BINGHAMTON, N. Y.—The Ogden-Hering route for the Fourth Ward sewer has been approved by the State Commissioner of Health. Cost, $79,000. Bids will soon be asked. S. M. Baird is City Engr.

NEW YORK, N. Y.—Bids are asked by Louis F. Haffen, Pres. Boro. of the Bronx, until 11 a. m., April 4, for constructing sewers, etc., in various streets.

NEW YORK, N. Y.—Bids as follows were received March 14 for constructing temporary sewer in White Plains Road (west side), between East 208th St. and 205th St.; Geo. M. Dunn, Clay Ave. and 167th St., $7,520; Wakefield Co., $5,569; Briggs & McLaughlin, $8,410.

The following bids were received at the same time for constructing sewer in Bryant Ave., between 177th St. and Boston Rd.; Geo. T. Bailey, 1199 Fulton Ave., $5,581; Briggs & McLaughlin, $5,948; Leeson, $5,628; Geo. Foley, $5,655.

Bids were also received as follows for constructing sewers in West 165th St., between Summit Ave. and Nelson Ave.; in Summit Ave. from West 165th St. to the summit north in Ogden Ave. from the summit south of 165th St. to the summit north of 166th St.: J. M. Stanton, 948 East 165th St., $11,673; Briggs & McLaughlin, $12,502; Leeson, $13,293.

NEWARK, N. J.—The Board of Street and Water Commissioners has awarded contract to JAMES J. FUSCA, Montclair, N. J., at $22,265, for constructing East Branch lateral sewers, Section 2. M. R. Sherrerd is City Engr.

ERIE, PA.—Contract for constructing sewers in various streets has been let to EDWARD DRISCOLL, 219 French St. B. E. Briggs is City Engr.

ROCHESTER, PA.—Plans are being prepared by J. P. Leaf, C. E., Leaf Bldg., for constructing 10-in. sewer.

ST. MARYS, PA.—At a special election held recently it was voted to increase the borough debt by $50,000 to provide for installation of sewerage system.

RADEN, PA.—Plans are being prepared by J. P. Leaf, Engr., Leaf Bldg., Rochester, Pa., for constructing sewerage system. Estimated cost, $5,000.

LAUREL, MD.—At a recent meeting of the Laurel Improvement Association a resolution was passed asking the Mayor and City Council to bond the town for a sum not exceeding $50,000 to build an electric plant and sewerage system. A committee will be appointed to investigate and report in detail upon the sewerage plan.

WASHINGTON, D. C.—Bids are asked by the District Commissioners until noon, April 15, for constructing sewer. (Advertised, Engineering News.)

The District Commissioners have awarded contract to WILLIAM F. BRENZIER, Washington, D. C., for construction of sewers in the District, based on (a) ordinary excavation; (b) red brick masonry; (c) vitrified brick masonry; (d) concrete masonry; (e) concrete masonry; (f) 6-in. pipe, at the following bid: (a) $1.85; (b) $14; (c) $24; (d) $9.40; (e) $9; (f) 50 cts.

CAMDEN, S. C.—Bids are asked by the Sewerage Commission, H. G. Carrison, Chn., until noon, May 1, for constructing sewers. (Advertised, Engineering News.)

HARTSVILLE, S. C.—Bids are asked by the Board of Public Works, J. J. Lawton, Chn., until noon, May 1, for constructing about 3½ miles of sewers, 8 to 18 ins. in diameter, and 6 to 20 ft. deep. Bids also are asked at the same time for constructing water-works system to consist of artesian well, steam and electric pumps, reinforced concrete reservoir, steel tank and tower and three miles of c.-i. 6 to 10-in. mains. Charles C. Wilson, 1302 Main St., Columbia, S. C., is Consult. Engr. (Advertised, Engineering News.)

OXFORD, OHIO.—Plans have been prepared for constructing sewer. Cost, $50,000. Alexander Potter, 143 Liberty St., New York, is Engr.

DAYTON, OHIO.—Bids are asked by the Board of Public Service, W. A. Maynes, Clk., until noon, March 29, for constructing (a) Adams St. storm sewer, consisting of 7.35 lin. ft. 12-in. vitrified pipe and trench, 522 lin. ft. of 15-in. vitrified pipe and trench, 794 lin. ft. 18-in. vitrified pipe and trench, 1,000 lin. ft. 24-in. vitrified pipe and trench, 35 catch basins, including elbows, 7 manholes; (B) Elm St. storm sewer and laterals, consisting of 400 lin. ft. 12-in. vitrified pipe and trench, 1,000 lin. ft. 15-in. vitrified pipe and trench, 725 lin. ft. 18-in. vitrified pipe and trench, 29 catch basins, including elbows, 7 manholes; (c) Germantown St. storm sewer, consisting of 150 lin. ft. 12-in. vitrified pipe and trench, 510 lin. ft. 15-in. vitrified pipe and trench, 6 catch basins, including elbows, 2 manholes; (d) East Third St. storm sewer, consisting of 360 lin. ft. 12-in. vitrified pipe and trench, 700 lin. ft. 15-in. vitrified pipe and trench, 12 catch basins, including elbows, 2 manholes. Robert E. Kline is City Engr.

TOLEDO, OHIO.—Bids are asked until April 1 for construction of sewer system. Cost, $40,000. T. W. White is City Engr.

RUSHVILLE, IND.—Bids are asked by the Common Council until 7.30 p. m., April 23, for constructing about 11¼ miles of sanitary pipe sewers, from 6 to 24-in., with necessary manholes, catch basins, etc. S. G. Gregg is City Clk. Alonzo L. Stewart is City Engr. (Advertised, Engineering News.)

GREENFIELD, IND.—Bids are asked by the County Commissioners until March 29, for furnishing material and constructing 5,700 ft. of tile sewers, 8, 10 and 12 ins. in diameter and one cement wall and relaying to grade 1,240 ft. of 8-in. tile.

RUSHVILLE, IND.—The City Council has approved plans and specifications for constructing complete sewer system. Bids will soon be asked. Alonzo L. Stewart is City Engr.

LANSING, MICH.—O. H. McKALE, of this city, has been awarded contract for constructing sewers. H. A. Collar is City Engr.

BAY CITY, MICH.—Bids are asked by the Board of Public Works, C. J. Barnett, Secy., until 2 p. m., April 1, for furnishing material and constructing 10-in. socket tile sewer in portion of Ketchum St. Henry C. Thompson is City Engr.

HASTINGS, MICH.—Bids are asked by Jas. M. Patten, City Clk., until 2 p. m., March 29, for constructing 2,630 lin. ft. of storm sewer.

ALBANY, ILL.—Bids are asked by the Commissioners of Meredosia Levee and Drainage District until 2 p. m., May 15, for constructing main ditch. The work requires removal of about 175,000 cu. yds. material. E. L. Bigelow is Secy. (Advertised, Engineering News.)

CAIRO, ILL.—The Board of Local Improvements has awarded contract for constructing 9,699 ft. of concrete main sewers and necessary appurtenances to the RICH CONSTRUC-

TION CO., Roe Bldg., St. Louis, Mo., at $108,813. Itemized bids are given this week under Contract Prices. W. B. Thistlewood is City Engr.

FOND DU LAC, WIS.—Bids are asked by the City Clerk, until 2 p. m., April 6, for construction of about 21,000 lin. ft. of storm sewers. L. A. Pettibone is City Engr.

MADISON, WIS.—Bids are asked by O. S. Norsman, City Clk., until March 29 for constructing sewers in Mifflin and Baldwin Sts. J. F. Icke is City Engr.

OTTUMWA, IOWA.—We are officially advised that JOHN W. SCOTT, of Ottumwa, has been awarded contract for constructing West End trunk sewer system of reinforced concrete. Bids were also submitted by the following: N. N. Naugle & Co., Ottumwa; Peoples Construction Co., Davenport, Iowa, and King Lambert Construction Co., Des Moines, Iowa. Itemized bids are given this week under Contract Prices. JOHN W. SCOTT also secured contract for constructing Blake's Branch trunk sewer, to be 8-ft. brick and stone, at $13.60 per lin. ft. Bids were also received as follows: Keefe Bros., Ottumwa, $14.94 per lin. ft.; Peoples Construction Co., $18.25, and King Lambert Construction Co., $19.00. C. R. Allen is City Engr.

DES MOINES, IA.—Bids are asked by W. W. Wise and J. W. Campbell, Board Public Works, until 11 a. m., April 5, for constructing Grand View sewer system. The work includes about 610 lin. ft. of 10-in. sewer; 5,801 lin. ft. 12-in. sewer; 756 lin. ft. 15-in. sewer; 1,987 lin. ft. 18-in. sewer, and 1,295 lin. ft. of 20-in. sewer. George D. Dobson is City Engr.

ESTHERVILLE, IA.—Contract for constructing drain No. 22 has been let to E. E. CRUMB, of this city. Roy J. Ridley is County Audr.

BOONE, IOWA.—Bids are asked by the City Clerk until 8 p. m., March 29, for furnishing material and extending sanitary sewer in Herman addition. The approximate quantities are as follows: 740 lin. ft. 6-in., 5,508 lin. ft. 8-in., 1,390 lin. ft. 10-in. vitrified clay pipe sewer, flush tanks, manholes, lamp holes, branches, etc. K. C. Kastberg is City Engr.

ST. PAUL, MINN.—The following bids were received March 14 by the Board of Public Works for constructing sewers on both sides of Grand Ave., from Snelling to Pascal Aves., and on Pascal Ave. from Grand to Summit Aves.: RYAN & JOHNSON, $5,830 (awarded contract); John Lind, $6,600; Nicholas Freyen, $6,595, and James Forrestal, $6,400. L. E. Rundlett is City Engr.

The City Council has appropriated $58,000 to aid in constructing South St. sewer system, which is to be extended over 12,000 lin. ft. Estimated cost, $82,583. Bids will soon be asked.

BEATRICE, NEB.—The city contemplates constructing vitrified pipe sewer. Estimated cost, $25,000. S. H. Avery is City Clk.

FAIRBURY, NEB.—KING & LAMBERT, Des Moines, Ia., have been awarded the contract for constructing 6,200 ft. of 8-in. vitrified pipe sewer, at $3,671. W. W. Watson is City Engr.

SOUTH OMAHA, NEB.—The NATIONAL CONSTRUCTION CO., George Parks, Pres., city, has secured contract, at $168,294, for constructing Mud Creek reinforced concrete sewer; also contract at $49,641, for construction of a reinforced concrete Jetter Creek main sewer. HARMON & CRAIG, South Omaha, have been awarded contract, at $32,350, for construction of reinforced concrete main sewer on N St.; also contract at $17,229, for construction of reinforced concrete main sewer on N St., and contract, at $12,022, for construction of reinforced concrete main sewer in Highland Park. JAMES JANSEN, Omaha, has secured contract, at $7,216, for construction of reinforced concrete main sewer on 21st St. J. J. Gillen is City Clk. E. W. P. Rohrbaugh is City Engr.

FORT SMITH, ARK.—GAWNE & CO., of this city, have been awarded contract for constructing sewers. T. R. Bayley is City Engr.

UKIAH, CAL.—The City Engineer has been instructed to establish lines on Holden St. and prepare plans and specifications for constructing sewer on Clara Ave.

OAKLAND, CAL.—Bids are asked by the Board of Public Works, Walter B. Fawcett, Secy., until 11 a. m., April 3, for furnishing material and constructing concrete intercepting sewer for Eighth, Ninth and Tenth Aves., to United States bulkhead line in estuary of San Antonio River. C. W. Cross is City Engr.

NAPA, CAL.—C. H. GILDERSLEEVE has been awarded contract for laying 8-in. pipe sewer in portion of Jefferson St. GEORGE ERRINGTON has secured contract for laying 8-in. sewer in portion of North Seminary St. O. H. Buchman is City Engr.

SEBASTOPOL, CAL.—The residents of Burnett St. have been granted permission to construct sewer to connect with main sewer. J. W. Threlefall is Town Clk.

FERNIE, B. C.—Bids are asked by J. W. Munn, City Clk., until 4 p. m., April 30, for constructing sewer system. (Advertised, Engineering News.)

GARBAGE DISPOSAL.

The names of parties awarded contracts are printed in capital letters.

NEW HAVEN, CONN.—A company may be incorporated for disposing of garbage from New Haven, Bridgeport, Waterbury and Naugatuck.

NEW YORK, N. Y.—Bids were received March 14; by the Park Board, for construction of storage sheds, manure pits and refuse incinerator in Central Park. Bids were submitted on three materials, Items 1, 2 and 3, the bids received being as follows: E. C. O'Toole, Item 1, $31,015; Item 2, $30,940; Item 3, $29,955. Wm. Horne & Co., 245 W. 20th St., 1, $22,470. J. & L. Moreland, 1910 Park Ave., 1, $22,443; 2, $22,568; 3, $22,568. Bart Dunn, 444 East 68th St., 1, $23,642; 3, $21,638. Michael Dwyer, 1, $23,400; 2, $23,900; 3, $21,600. Louis Wechsler, 1123 Broadway, 1, $19,974; 2, $21,174; 3, $19,974. Joseph M. Knopp, 270 W. 19th St., 1, $19,150; 3, $20,890. Edmond D. Broderick, 1382 Lexington Ave., 1, $20,990; 2, $20,990; 3, $23,990. Peter Kieran, 15 East 218th St., 1, $17,261; 2, $17,500; 3, $16,720; Leslie, McHarg & Co., 299 Broadway, 1, $24,323; 2, $24,523; $24,323; Kelly & Kelley, 45 East 42d St., 1, $23,490; 2, $24,923; 3, $23,249. Springsted & Adamson, 434 E. 107th St., 1, $23,000; 2, $23,744; 3, $20,873. John Spence, Jr., 131 East 18th St., 1, $22,230; 2, $22,230; 3, $22,230.

WILKES-BARRE, PA.—The BENNETT INCINERATING CO. has been awarded contract for constructing garbage crematory. Alferd Hand is City Engr.

AVALON (Allegheny post-office), PA.—Bids are asked by E. E. Custard, Boro. Clk., until 7 p. m., March 30, for removal of garbage from Borough of Avalon for year beginning April 1.

NATCHEZ, MISS.—Bids are asked by George T. Eisele, City Clk., until 5 p. m., April 3, for sprinkling streets in four districts.

CINCINNATI, OHIO.—The St. Louis Street Flushing Machine Co., it is reported, has been awarded contract by the Board of Public service for furnishing two one-horse street flushing machines, at $13,750.

PORTLAND, ORE.—Bids are asked by Thomas C. Devlin, City Audr., until 11 a. m., April 22, for constructing garbage crematory of not less than 100 tons capacity per 24 hours. (Advertised, Engineering News.)

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

ALBANY, N. Y.—The following bids were received March 18 by the Board of Contract and Supply for improving John St.: Mulderry Bros., $10,315; E. F. Dillon, $10,107; T. Henry Dumary, $10,152; M. F. Dollard, $10,253. All of Albany.

Bids were received at the same time for improving Arch St., as follows: Mulderry Bros., $14,370; E. F. Dillon, $14,894; T. Henry Dumary, $14,085; M. F. Dollard, $13,861; John Doyle, $12,662; Vulcan Engineering Co., $14,265. All of Albany. Walter Melius is City Engr.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres., Boro. of Brooklyn, until 11 a. m., April 3, for regulating, paving, grading, etc., portions of various streets, Boro. of Brooklyn.

Bids are asked by Louis F. Haffen, Pres. Boro. of The Bronx, until 11 a. m., April 4, for (A) furnishing and delivering broken trap rock stone and screenings; (B) sodding plots along portion of Longwood Ave. and Prospect Ave.; (C) paving portions of various streets, Boro. of The Bronx.

PORT CHESTER, N. Y.—We are officially advised that the contract for improving Poningo and Prospect Sts. has been awarded to the U. S. WOOD PRESERVING CO., at $30,474. The work involves the following approximate quantities: 3,300 cu. yds. excavation, 8,300 sq. yds. wood pavement, 2,400 lin. ft. curbing, 2,380 sq. yds. brick pavement, 600 lin. ft. vitrified pipe drains, and 2,557 sq. yds. macadam pavement. Bids were also submitted by the following: W. M. McIlravy, $33,946; Franklin Construction Co., $32,759, and Asphalt Construction Co., $35,381. Itemized bids will be given next week under Contract Prices. J. A. Kirby & Son are Engrs.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., April 5, for repaving portions of Amherst St. and South Park Ave.

OSWEGO, N. Y.—JOHN HENRICK has been awarded contract for paving West Bridge St. Charles H. Snyder is City Engr.

SCHENECTADY, N. Y.—The Board of Contract and Supply March 13 awarded contract to J. J. MOLLOY for grading Main St. and Helderberg Ave. L. B. Sebring is City Engr.

SUMMIT, N. J.—Bids are asked by the Common Council until 8.30 p. m., April 2, for laying 4-ft. cement sidewalk on west side of Hobart Ave., from Whittredge Pl. to Ridge Road. William S. Logan is City Engr.

BERNARDSVILLE, N. J.—DICKERSON & GILL, Dover, N. J., have been awarded contract for paving.

HADDONFIELD, N. J.—Bids are being received for laying curbs and gutters. J. Morris Roberts is Mayor.

ERIE, PA.—Bids are asked until 8 p. m., April 18, for paving East Ave. with sheet asphalt or brick block. The work consists approximately of 8,200 sq. yds. paving, 3,900 cu. yds. grading, 3,000 lin. ft. curb, etc. B. E. Briggs is City Engr. (Advertised, Engineering News.)

WORMLEYSBURG, PA.—Joseph W. Hunter, State Highway Comr., has let contract to FRANKLIN HAFER & CO., Bailing Springs, Pa., for construction of one mile of road through Wormleysburg.

BRADFORD, PA.—Bids are asked by Joseph W. Hunter, State Highway Comr., at Harrisburg, Pa., until March 30, for constructing 6,500 lin. ft. of road in Canton Township.

EAST STROUDSBURG, PA.—SHIFFER BROS. & CO. have been awarded contract for constructing turnpike between East Stroudsburg and Middle Smithfield Township, at $38,648. Joseph W. Hunter, at Harrisburg, Pa., is State Highway Comr.

WASHINGTON, PA.—Bids are asked by the County Commissioners until noon, April 16, for improving various roads. William Wylie is County Road Engr.

BALTIMORE, MD.—The Municipal Board of Awards has awarded contract to WARREN BROTHERS CO., 608 Fidelity Bldg., at $7,524, for bitulithic pavement on Washington St. between North Ave. and entrance to Clifton Park. B. T. Fendall is City Engr.

WASHINGTON, D. C.—Bids were opened March 23 at the office of the Commissioners of the District of Columbia for the work of renewing, resurfacing, and repairing pavements in the District of Columbia; (a) indicates prices for a period between date of contract and June 30, 1919; (b) those for a period between date of contract and June 30, 1911. (1) laying standard asphalt pavement (2½-in. asphalt surface, 2-in. binder, before compression), with 6-in. concrete base of type "A"; (2) same with 6-in. concrete base type "B"; (3) laying standard asphalt surface (2½ ins. before compression); (4) laying standard asphalt surface (measured in cart), per cu. yd.; (5) laying asphalt binder (measured in cart). The bids were:

Brennan Construction Co., 3056 K St. N. W., Washington, (1a) $1.63; (1b) $1.59; (2a) $1.69; (2b) $1.63; (3a) 67 cts.; (3b) 66 cts.; (4a) 49 cts.; (4b) 44 cts.; (5a) 28 cts.; (5b) 25 cts.

Cranford Paving Co., 2620 E St. N. W., Washington, (1a) $1.77; (1b) $1.79; (2a) $1.81; (2b) $1.91; (3a) 73 cts.; (3b) 77 cts.; (4a) 52 cts.; (4b) 55 cts.; (5a) 28 cts.; (5b) 29½ cts.

Barber Asphalt Paving Co., 26th and D Sts. N. W., Washington, (1a) $1.79; (1b) $1.78; (2a) $1.89; (2b) $1.80; (3a) 84 cts.; (3b) 83 cts.; (4a) 58 cts.; (4b) 58 cts.; (5a) 30 cts.; (5b) 29½ cts.

HUNTINGTON, W. VA.—HARRISON & DEAN, of this city, have been awarded contract for 14 blocks of brick paving. Work will begin about April 1. J. H. Sanborn is City Engr.

CHARLESTON, W. VA.—The contract for paving Sixth Ave. from Eighth to 16th Sts., has been let to HARRISON & DEAN, for $37,919. W. A. Hogue is City Engr.

ALBANY, GA.—Bids are asked by V. C. Rust, City Clk., until April 1, for furnishing material and laying sidewalks on Washington and Broad Sts.

NORTH BIRMINGHAM (Birmingham post-office), ALA.—Bids are being received for laying 26 miles of curbing, 26 miles of sidewalks, 13 miles macadam streets and 3,000 lin. ft. brick pavement.

ALEXANDRIA, LA.—Bids are asked until May 7 for paving with asphalt portion of Fourth St. F. S. Hoyt is City Engr.

CANTON, OHIO.—We are officially advised that bids were received March 6 for improving various streets and contracts have been awarded to Canton contractors as follows: HARRY CORL, South Market St., $11,157; Park Ave., $6,237; Oxford St., $3,084; Raynolds St., $1,266; DOWNS & CAMPBELL, Bluff and Plain Sts., $3,975; Blaine Ave., $1,750. NELSON & LARSON, Garfield Ave., $4,407. JOE GEORGE, Chance Ave., $6,181. JOHN D. DUNBAR, West Lake St., $3,173. W. E. Sarver is City Engr.

CINCINNATI, OHIO.—Bids are asked by the Board of Public Service, M. J. Keefe, Clk., until noon, April 9, for grading, setting 1,240 lin. ft. granite curb, and paving 1,910 sq. yds. with brick on portion of Trade St. Estimated cost, $8,136. Bids also are asked at the same time for grading, setting 3,000 lin. ft. sandstone curb and paving 9,081 sq. yds. with brick on portion of Price Ave. Estimated cost, $22,525. C. N. Dannenhower is City Engr.

Bids are asked by the Board of Public Service until noon, April 15, for grading, laying 650 lin. ft. limestone curb and paving with brick 1,230 sq. yds. on portion of Vista Ave. Estimated cost, $3,596. Bids also are asked at the same time for grading, setting 1,450 lin. ft. sandstone curb and paving with brick 375 sq. yds. and repaving with boulders 1,270 sq. yds. on portion of Spring St. Estimated cost, $4,119.

YOUNGSTOWN, OHIO.—Contract for grading hills between Kyles Corners and Flint Hill, Youngstown Township, has been let to WALTER ELLIS. Will B. Jones is County Surv.

DAYTON, OHIO.—The CAIN CONSTRUCTION CO., of this city, has been awarded contract for paving various streets and alleys. Frank I. Consaul, is Ch. Engr. Bd. Pub. Service.

CLEVELAND, OHIO.—Bids are asked by the Board of County Commissioners, Julius C. Dorn, Clk., until 11 a. m., April 13, for grading, draining and paving portion of Brecksville Road. A. B. Lea is County Surv.

MARION, IND.—We are officially advised that O. T. SIMMONS, of Marion, has been awarded contract for laying Norton blue oolitic pavement, tar filler, and limestone curb, at $6.07 per lin. ft. complete. The approximate quantities are as follows: 4,350 cu. yds. excavation, 2,683 cu. yds. crushed stone, 920 cu. yds. sand and gravel, 9,733 sq. yds. paving brick, 132 lin. ft. circular curb (6-ft. rad.), 188 lin. ft. circular curb (4-ft. rad.), 5,935 lin. ft. 5 × 24-in. curb, 464 lin. ft. 4 × 18-in. stratified limestone curb, 90 lin. ft. 15-in. vitrified sewer pipe, 312 lin. ft. 12-in. vitrified sewer pipe, 188 lin. ft. 10-in. vitrified sewer pipe, eight curb inlets, two manholes, 70 tons No. 6 paving pitch. Bids were also submitted by the following: L. C. Lillard, Dillard Artis, William Yates, E. A. Millikan and Michaels & Minnick, all of Marion, and Philip Hipskind, of Wabash, Ind. T. E. Petrie is City Engr.

DANVILLE, IND.—Bids are asked by the County Commissioners until April 2 for constructing gravel road in Franklin Township. David D. Mills is County Audr.

INDIANAPOLIS, IND.—The WESTERN CONSTRUCTION CO. has been awarded contract to repair the asphalt streets in the city at 66 cts. per sq. yd. Blaine H. Miller is City Engr.

TERRE HAUTE, IND.—Bids are asked by the County Commissioners until 11 a. m., April 13, for constructing road Nos 10 and 12, Fayette Township, 2,585 and 10,077 ft. in length, respectively. J. W. Denelin is County Audr.

GRAND RAPIDS, MICH.—Bids are asked by the Board of Public Works until 2 p. m., March 29, for paving with creosoted blocks portion of Fountain St.

EL PASO, ILL.—KEYS & [illegible]AMARA, of La Salle, Ill., have been [illegible]ded contract for paving. Estimated cost [illegible]0.00.

CARROLLTON, ILL.—Bid[illegible] the Board of County Super[illegible] asked by m., March 30, for construct[illegible] until 2 p. brick pavement and 1,364 [illegible]52 sq. yds. curb. [illegible]ft. cement

AURORA, ILL.—The Boar[illegible] Local Improvements has awarded co[illegible]t to J. E. SALFISBURG & CO. for pa[illegible] and curbing portion of North Lincoln A[illegible]

MARINETTE, WIS.—Bids [illegible]sked by the Board of Public Works, Jac[illegible]tting, Chn. until 2 p. m., April 6, for pa[illegible]Garden St. Park Ridge Ave. and Vine [illegible]with brick and Eleventh St. with macad[illegible]

BOONE, IOWA.—Bids are [illegible]d by Otto Hile, City Clk., until 8 p. [illegible] March 29, for paving with vitrified re[illegible]d paving brick upon 5-in. concrete fo[illegible]on, Portland cement top filler, appro[illegible]ely 12,000 sq. yds. on Marion St. K. C[illegible]Kastberg is City Engr.

IOLA, KAN.—C. C. LUCC[illegible] has been awarded contract for macada[illegible]g various streets. George Myers is City [illegible]r.

LAWRENCE, KAN.—Bids [illegible]asked by F. D. Brooks, City Clk., un[illegible] 5 p. m., April 1, for grading, curbing and [illegible]aving with vitrified brick portions of vario[illegible] streets.

SALINA, KAN.—HASKINS [illegible]RAMSEY, of Topeka, Kan., have secured [illegible]ontract for paving.

GRAND FORKS, N. DAK.—B[illegible] are asked by W. V. O'Connor, City Audr., until 5 p. m., April 1, for construction of sidewalks during the present year. J. J. Smith is City Engr.

ST. JOSEPH, MO.—RATCLIFFE & GIBSON, of this city, have secured contract, at $23,874, for paving seven blocks on Fourth St. with granite blocks and constructing curbs, and contract for paving five blocks on 24th St. with Hassom blocks. David Lawler is City Engr.

LITTLE ROCK, ARK.—The ARGENTA PAVING CO. has been awarded contract for grading and macadamizing portions of Maple St. and Washington Ave. E. A. Kingsley is City Engr.

TYLER, TEX.—OCKANDER BROS., of Waco, Tex., have secured contract for paving various streets.

TULSA, IND. T.—The CLEVELAND TRINIDAD ASPHALT CO. has been awarded contract for paving with asphalt 20 blocks at $127,000. S. C. Hughes is City Engr.

OTTAWA, ONT.—The city will make the following improvements on streets: Concrete sidewalk on Somerset St. from LeBreton to Division St.; tar macadam pavement, 36 ft. wide, on Gladstone Ave. between Bank and Bell St. Estimated cost, $83,065. E. R. Beckwith is City Engr.

PRINCE ALBERT, SASK.—City Engineer Moon is taking levels for five miles of pavements to be laid this summer. Estimated cost, $500,000.

REGINA, SASK.—Bids are asked by J. Kelso Hunter, City Clk., until 5 p. m., April 2, for laying 185,000 sq. ft. granolithic sidewalks, 8,000 lin. ft. straight curb and 32,000 lin. ft. combined curb and gutter.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

HAVERHILL, MASS.—F. W. Bird & Son, manufacturers of roofing and other special papers and paper boxes, will erect a plant in the Bradford District of the city on a tract of land on the river side below the present plant of the Haverhill Boxboard Co. The tract is 680 ft. long by 300 ft. wide and embraces the entire strip of property from the Boston & Maine R. R. tracks to the Merrimack River.

CENTRAL FALLS, R. I.—The contract for the new mill of the Waypoyset Mfg. Co. of Central Falls has been awarded to the FRANK G. ROWLEY CO., of Pawtucket, R. I., and work on the new building will begin within a few weeks.

TORRINGTON, CONN.—R. P. Jenks, Providence, R. I., it is reported, has completed plans for the factory building to be erected for the Union Hardware Co., 408 Migeon Ave., Torrington. It will be a brick structure, of mill construction, two stories high, 100×150 ft.; ell, two stories, 40×60 ft. It will have tar and gravel roof, automatic sprinklers.

NEW BRITAIN, CONN.—Max Unkelbach, Arch., has prepared plans for a factory addition to the plant of Landers, Frary & Clark. Commercial and Center Sts., to be used for press and tempering rooms. The main building will be 50×180 ft., with a wing, 40×75 ft., two stories of mill and fireproof construction.

BRISTOL, CONN.—An insulated wire factory to employ 500 hands and to cost about $200,000 is planned by the National India Rubber Co. and is to be erected within the next few months on the premises of the present rubber mills of the company in Bristol. The structure is to be of brick, two stories in height, 450 ft. long and about 60 ft. in width. The electric generating plant will be increased in regard to power and light, so as to operate the machinery and other appliances in every department of the new building. This will mean the reorganization of the whole system of the electric plant at the factory in order to care for the extra work required.

SYRACUSE, N. Y.—The Syracuse Rapid Transit Co. will build a machine shop and car barn on Wolf St., to cost $150,000. C. Loomis Allen is Gen. Mgr.

ALBANY, N. Y.—It is reported that the Federal Railway Signal Works has purchased land of the Albany Forge Co., on the Troy Road, and is planning to locate its plant there. The contract for erecting the temporary structure has been awarded to W. E. MARTIN, Front St., Troy. The building is to be constructed of wood and will be 150 ft. long and 75 ft. wide.

LITTLE FALLS, N. Y.—Fred Ostrander, manager of the Ostrander mills, will begin construction at once of an addition to his present flouring plant. The new addition will be a 3-story frame building, 30x60 ft., plans for which have been prepared.

BUFFALO, N. Y.—The U. S. Hame Co., Watts and Swanda Sts., will build a frame, corrugated iron foundry, and concrete and corrugated iron auto shed, at the corner of Winans and Watts Sts. Charles Heidrich is Dist. Mgr.

GLENS FALLS, N. Y.—A $40,000 machine shop will be erected by W. W. Wells, of Glens Falls and Andrew Trombley, of Carthage, of Utica, and will be located on the Sherman Lime Co., on the south side of Lower Warren St., opposite the end of Rogers St.

JAMESTOWN, N. Y.—The Dahlstrom Metallic Door Co. has decided to build an addition to its factory, which will nearly treble the size of the plant. The original factory is 112x64 ft. and four stories high, the addition now building is 135x64 ft. and four stories high, and the new addition for which bids will soon be received is to be 160x64 ft., four stories high. The company now employs 195 men. When the new buildings are completed nearly 500 men will be employed.

The Ohlstrand Metal Furniture Co. is planning erection of a plant on Taylor St. The first building to be put up will be of brick, 200x60 ft., and four stories high.

CHESTER, PA.—The Keystone Steel Castings Co., A. G. Lorenz, Pres., will have plans started soon for a steel plant at this city. Brick construction will be used. Power plant and special machienry will be installed.

EAST PITTSBURG, PA.—The Westinghouse Electric & Mfg. Co., Westinghouse Bldg., Pittsburg, Pa., has awarded the contract to the WILLIAM MILLER & SONS CO., Federal St., Pittsburg, Pa., for erecting an 8-story steel frame fireproof factory building, 70x402 ft. Cost, $500,000. The McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has the contract for doing the steel work. E. M. Kerr, of Westinghouse Co., is in charge of work.

LANCASTER, PA.—The S. R. Moss Tobacco Co. is having plans prepared for a cigar factory and warehouse to be constructed at Lancaster. The building will be of fireproof brick, concrete and steel construction, five stories high, 100x120 ft.

PHILADELPHIA, PA.—McCann Bros. are reported to have awarded a contract to EDWARD FAY & SON, 2666 Richmond St., for the erection of an ice manufacturing plant at Twelfth St. and Washington Ave. The cost is about $100,000. Holt & Schober and Arnold H. Moses, 136 South Fourth St., prepared the plans.

According to reports, Stearns & Castor, Stephen Girard Bldg., are preparing plans for an 8-story manufacturing building to be erected at Twelfth and Callowhill Sts., at a cost of $175,000.

Ballinger & Perrot, Archs., 1200 Chestnut St., Philadelphia, have awarded contract to GEORGE A. GLENN & CO., 930 North Eighth St., for a new plant to be erected at the corner of 49th and Market Sts., for the Chilton Printing Co. The building will have a frontage of 129 ft. on Market St. and 128 ft. on 49th St., and will have one story and basement. The walls will be constructed of cement blocks, and the columns and roof of slow burning construction. The roof will be furnished with saw-tooth skylights. There will be a boiler room in the basement separated from the rest of the building by reinforced concrete ceilings and walls. It will be equipped with a sprinkler system supplied from a supply tank located upon a tower at one corner of the building.

BALTIMORE, MD.—CHARLES L. STOCKHAUSEN, Gay and Water Sts., Baltimore, has secured contract for constructing a 3-story brick and concrete fireproof bakery for the Rice Bros. Co., 318 North Gay St.

A permit has been granted to Bartlett, Hayward & Co., Continental Trust Bldg., to erect a 4-story building at the corner of Ramsay and Cross Sts. The structure will be used as a toolhouse in connection with the firm's plant. It will cost $12,000. Recently Thomas J. Hayward, the head of the firm, acquired several pieces of land on Ramsay St., which will be used for improvement purposes. The toolhouse will be irregular in shape, but its biggest dimensions will be 130 and 84 ft.

ODENTON, MD.—The contract will be let soon for the car repair shops at Odenton, Md., of the Washington, Baltimore & Annapolis Electric Ry. Co. George T. Bishop, Cleveland, Ohio, is Pres.; J. G. Masterson, Maryland Trust Bldg., Baltimore, is Secy.

CLARKSBURG, W. VA—The Tuna Glass Co., of Bradford, Pa., will establish plant for the manufacture of window glass, it is reported, with an annual capacity of 200,000 boxes. It is proposed to erect two buildings 115x200 ft. and 75x120 ft., with wings 32x75 ft., 50x150 ft. and 30x50 ft., office and several small buildings. About $75,000 will be invested in building and equipment. C. H. Harding is Gen. Mgr., at Bradford.

KINGS MOUNTAIN, N. C.—Kings Mountain Lumber Co. has been incorporated to operate sash, door and blind factory. A building 50x100 ft. will be erected. About $10,000 will be invested in building and equipment. D. C. Mauney is Secy.-Treas. and H. F. Peterson Supt. and Gen. Mgr.

TOCCOA, GA.—W. C. Edwards is organizing Toccoa Furniture Co. to erect two buildings, each two stories high, 75x150 ft., for factory purposes.

ELBERTON, GA.—Elberton Cotton & Compress Co. will erect brick and concrete building for the compressing and storing of cotton. About $40,000 will be invested. W. E. Wallis is Arch.

AUGUSTA, GA.—Armour & Co., 205 La Salle St., Chicago, Ill., it is reported, are completing arrangements for making proposed enlargements to plant, installing mixing plant, acid tanks, etc., in conjunction to addition to fertiliser factory. This season the plant had a capacity of 1,500 tons, which it is proposed to increase by 5,000 tons. About $400,000, it is stated, will be expended. Odgen Armour is Gen. Mgr.

TAMPA, FLA.—J. H. Drew has awarded contract to McGUCKEN BROS. for the erection of two brick cigar factories, one to be occupied by Garcia, Viga & Co. and the other by Clestino, Garcia & Strauss. Total cost, about $40,000.

BIRMINGHAM, ALA.—Crane & Co., wholesale hardware, machinery and mining apparatus dealers, will begin the erection soon in Birmingham of a foundry and pipe plant in which will be manufactured plumbers' supplies. The general headquarters of Crane & Co. are located at 519 South Canal St., Chicago. The foundry will have a daily capacity for handling between 20 and 100 tons of pig iron.

ASHLAND, KY.—J. R. Gieske, Arch., Ceredo, W. Va., has prepared plans for a 2-story tanning house, 45x150 ft., and a 1-story vat house, 85x250 ft., for the Ashland Leather Co.

OLIVE HILL, KY.—Plans are being prepared by S. P. Baird, Consult. Engr., Masonic Bldg., Portsmouth, Ohio, for a 5-story brick factory to be located at Olive Hill. Cost, $75,000.

NEWARK, OHIO.—The Ohio Rail Co., Newark, will erect an 18-in. rail rolling mill, at a cost of about $50,000. Lambert B. Richards, Newark, is Vice-Pres.

COLLINWOOD, OHIO.—LeBaron & Gebhardt, Cleveland, have made plans for a factory building for the Lindsay Wire Weaving Co., Collinwood. Estimated cost, $20,000.

AKRON, OHIO.—F. R. Moore, Arch., 315 Everett Bldg., is preparing plans for a 3-story manufacturing building, 50x100 ft., for the Star Rubber Mfg. Co. Bids will be taken by owner.

ELMWOOD PLACE (Cincinnati post-office), OHIO.—The Elmwood Castings Co. will erect a casting foundry, to take care of the business of the Stacey Mfg. Co., architectural iron makers. Estimated cost, $200,000. J. E. Stacey, of Stacey Manufacturing Co., Elmwood Place, Ohio, is in charge of improvements.

CLEVELAND, OHIO.—A wire mill to cost about $2,000,000 will be erected on 100 acres of land recently purchased by the American Steel & Wire Co., of Harvard Ave. The company expects to have the plant in operation within a year, and will employ 1,000 men.

GARY, IND.—The Western Glucose Co., Postal Telegraph Bldg., Chicago, has let contract to C. W. GINDELE, 3333 La Salle St., Chicago, for constructing refinery, kiln and syrup house at Gary.

ALTON, IND.—An oil refinery will be erected about four miles south of this city for the Standard Oil Co., after plans prepared by J. E. Evans, Ch. Engr., of Whiting, Ind. Plans call for an expenditure of $500,000.

ELKHART, IND.—E. Hill Turnock, 92 La Salle St., let the general contract to H. W. GODFREY, Elkhart, Ind., for a factory to be built in connection with a manufacturing plant here for the Davis Acetylene Co., of this town. It will be 2-story, 50x235 ft., have stone foundation substantial enough to carry additional stories, superstructure partly of reinforced concrete and partly of mill construction, brick exterior, steam heat, office fixtures, electric light fixtures, be piped for acetylene gas, and cost $25,000.

INDIANAPOLIS, IND.—The Gipson Automobile Co. will receive bids for erection of addition to its plant on Massachusetts Ave.

CRAWFORDSVILLE, IND.—The Crawfordsville Wirebound Box Co. has awarded a contract to SWAN & SON for erection of a factory, 75x205 ft., two stories high. New boilers and other machinery will be bought for the new plant.

GRAND RAPIDS, MICH.—It is reported that CHARLES HOERTZ & SON have been awarded the contract for constructing a machine shop and office for the Dake Steam Turbine Co., at First and Grandville Aves.

CHICAGO, ILL.—Frost & Granger, Archs., 184 La Salle St., are preparing plans for a factory building for the Macomber White Rope Co.

Francis C. and John V. Farwell will construct an 8-story building at the corner of Fifth Ave. and Congress St. for the occupancy of Carter & Holmes, manufacturers of neckwear, now located at 207 Jackson Boulevard. The building will front 80 ft. on Fifth Ave. and 100 ft. on Congress St. It will be of mill construction and will be equipped with low pressure steam plant, two electric elevators and sprinkling system. It will be completed and ready for occupancy by Jan 1, 1908. It will cost $200,000.

TWO RIVERS, WIS.—W. Cuddington, Milwaukee, has let general contract to J. F. SCHMIDT BROS. CO., Reaper Block, Chicago, for a factory building for the Aluminum Mfg. Co., Two Rivers. Cost, $22,000.

LA CROSSE, WIS.—Richard Griesser, Arch., 1014 Schiller Bldg., 109 Randolph St., has completed plans for a large brewery to be built at La Crosse, Wis., for the C. & J. Michel Brewing Co., of this city. It will comprise four buildings, the brewhouse to be 6-story or 90 ft. high with a frontage of over half a block and a depth of 170 ft., of fireproof steel construction, with brick and stone exterior, concrete foundation, gravel roof, cement and asphalt floors, steam heat and electric light. The other buildings will be of various dimensions, of brick and stone. The plant is estimated to cost about $750,000.

CORLISS, WIS.—L. Frank & Sons Co., 642 Market St., Milwaukee, is having plans prepared, it is reported, for a sauerkraut factory, to be established at Corliss, and to cost $50,000.

DULUTH, MINN.—It is reported that a 5-story and basement factory 110 x 115 ft. will be constructed here of brick and stone, by the Northern Shoe Co.

FREDONIA, KAN.—THE CARTHAGE CORNICE WORKS have been awarded the contract for covering with iron the sides and roofs of the buildings of a cement works at Fredonia. The buildings are of steel construction and cover several acres of ground. The MIDLAND BRIDGE CO. has the general contract for the erection of the buildings.

OMAHA, NEB.—THE DETROIT TRUSSED CONCRETE STEEL CO. has secured the contract to erect for Haarman Bros., manufacturers of vinegar and pickles, a factory of reinforced concrete at 12th and 13th and Marcy Sts, and the Chicago, Burlington & Quincy Ry. The main building will be eight stories, and, with the subsidiary buildings, will cost $100,000.

FORT ROBINSON, NEB. — Bids are asked by Capt. Leon S. Roudiez, Constr. Q. M., until noon, March 30, for constructing shop buildings at this post.

ST. LOUIS, MO.—Sanguinet & Taussig Architectural & Building Co. is having plans prepared for a 4-story factory building, it is reported. Estimated cost, $85,000.

A. B. Groves, Arch., 314 North Fourth St., St. Louis, has prepared plans and is taking bids for an addition to factory building for the Brown Shoe Co., Eleventh St. and Washington Ave., to cost $40,000.

HERCULANEUM, MO. — Widmann & Walsh, Wainwright Bldg., St. Louis, have prepared plans and are taking bids for an engine house 78 x 85 ft., to be erected at Herculaneum, for the Mississippi & Bonne Terre Ry. Co. Cost, $10,000.

KANSAS CITY, MO.—Home Ice & Refrigerator Co., Paul A. Simonds, Pres., has awarded contract to FLANNAGAN BROS. MFG. CO., 14th and Baltimore Sts., for erection of ice plant with daily capacity of 100 tons, to be completed by June 1.

CAPE GIRARDEAU, MO.—T. C. Link, Arch., 308 North Sixth St., St. Louis, let general contract to C. A. MORENO, Century Bldg., St. Louis, it is reported, for a 5-story shoe factory for Roberts, Johnson & Rand, to be erected at Cape Girardeau, at a cost of $150,000.

STUTTGART, ARK.—Stuttgart Rice Mill Co. has been incorporated with $50,000 capital to build plant of 250 bbls. capacity in 10 hours. The mill structure will be four stories high, 40x60 ft., brick or frame; warehouse or elevator to have capacity of 75,000 bushels. Cost of buildings and equipment, $25,000 to $35,000. G. W. Fagan is Pres.; H. C. Bruner, Secy.; J. F. Whaley, Treas., and Ray O. Burks, Mgr.

OKLAHOMA, OKLA.—Oklahoma Vitrified & Pressed Brick Co. will establish plant for the manufacture of paving, sidewalk, pressed and common building brick; capacity 60,000 to 100,000 daily. Steam power will be used. Chas. A. Hoshour is Pres. and Gen. Mgr.

EL RENO, OKLA.—L. C. Lowe, Arch., Huntington, W. Va., has prepared plans for a 1 and 2-story brick, metal roof, pottery building, 432 x 140 ft., for El Reno China Co. C. S. Moore, Elkins, is interested. Cost, $30,000.

CHICKASHA, IND. T.—A cottonseed-oil mill is to be erected at Chickasha by the Apache Cotton Oil Co. at a cost of about $150,000. Negotiations have been closed for the purchase of nine acres of land on which two plants will be erected. An 8-press 15-box mill with a capacity of 160 tons of seed daily will be built, which, with the equipment, will cost $100,000, and a $50,000 refinery, to have a capacity of 50 bbls. daily, will be erected. It is expected to be in operation by the middle of July. The Rock Island system is to have a side track to the mill. John J. Culberson, Sr., is Pres., and John Le Clerq, Vice-Pres.

FORT GARLAND, COLO.—A Kansas City syndicate, headed by R. J. Martin, has purchased a tract of 170,000 acres in the San Luis valley from Gen. Willam J. Palmer for $500,000. The company will erect a $1,000,000 beet sugar factory at Fort Garland. The land acquired will be cultivated for beets, and it is proposed to operate a factory with a capacity of 1,000 tons of beets daily.

SAN FRANCISCO, CAL.—The Osborn Engineering Co., Consult. Engrs., Cleveland, Ohio, has let contracts for construction of large cement plant for the Henry Conell Lime & Cement Co. to following contractors: Steel buildings, W. B. SCIFE & SON, Pittsburg, Pa.; foundations, reinforced concrete and building construction, HANKIN BROS. CONSTRUCTION CO., Cleveland; kilns and coolers, VULCAN IRON WORKS, Wilkes-Barre, Pa.; tube mills and motors, ALLIS-CHALMERS CO., Milwaukee; bolt mills, THOMAS PROSSER & SON, 15 Gold St., New York. Construction will commence at once.

SYDNEY, N. S.—The Dominion Coal Co. is having plans prepared for extensive alterations and additions to its plant.

NEW GLASGOW, N. S.—Bids are asked until March 30 by W. H. Johnston, Pres., Westville, N. S., for constructing a building 152x42 ft., for the Sutherland Rifle Sight Co., at New Glasgow; also a power building, 12x27 ft. Construction is to be of brick or concrete.

AMHERST, N. S.—Rhodes, Curry & Co., Amherst, will erect an addition to its car works planing mill in the spring.

TORONTO, ONT.—Nerlich & Co., Toronto, will erect a 2-story addition to their warehouse on Front St., at a cost of about $35,000.

The Dominion Bridge Co., Montreal, have secured a site on Sorauren Ave., Toronto, and will erect a 400 x 70-ft. bridge shop, the present premises having proved too small for their needs. Work will be commenced as soon as possible in the spring. The new building will cost about $30,000.

LETHBRIDGE, ALTA.—The Ellison Mill & Elevator Co. will erect a mill and elevator here at a cost of $75,000.

LETHBRIDGE, ALTA.—The Lethbridge Brick & Terra Cotta Co., Lethbridge, Alta., will extend its plant at a cost of about $15,000, it is reported. This will bring the capacity to 40,000 brick a day.

PELHAM CENTRE, ONT.—A canning and preserving plant will be erected here at a cost of about $12,000. The officers include: G. Arnold, Ridgeville, Ont., Pres.; A. Armbrust, Pelham, Ont., Vice-Pres., and G. J. McCormick, Welland, Ont., Secy.

MUSKOKA, ONT.—The Canadian Pacific Ry. Co. has decided to make this town a divisional point, and this year will erect a roundhouse, shops and an office building. James Oborne, Toronto, is Supt.

FORT WILLIAM, ONT.—The town council has agreed to guarantee $100,000 of bonds of the Imperial Steel & Wire Co., and at a cost of $200,000 the company will erect a mill with a capacity of 100 tons of wire daily.

VANCOUVER, B. C.—The Vancouver Breweries, Ltd., have had plans prepared for the new bottling department building; also a new brewery and malting department, at a cost of $150,000.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

U. S. RECLAMATION SERVICE.—All news relative to canal projects, etc., will be found under Water Supply—Irrigation.

DREDGING.—New London, Conn.—Bids are asked until noon, April 10, for dredging in Connecticut River. Maj. Harry Taylor, U. S. Engrs.

TELEPHONE SYSTEM.—Moncton, N. B.—The Council is seeking authority to construct a municipal telephone system, at a cost of $30,000.

CEMENT, STONE, SAND.—Portland, Me.—Bids are asked until noon, April 20, for cement, broken stone and sand. Maj. Edw. Burr, U. S. Engrs. (Advertised, Engineering News.)

DAM MACHINERY.—Louisville, Ky.—Bids are asked until noon, April 23, for steel and iron parts for Chanoine dam. Capt. H. Burgess, U. S. Engrs. (Advertised, Engineering News.)

LEVEES, ETC.—Rock Island, Ill.—Bids are asked until April 20 for constructing levees, drains and pumping station in Drury Drainage District, Rock Island County, Ill. Wallace Treichler, Engr.

TELEGRAPH LINE.—Winnipeg, Man.—B. S. Jenkins, Gen. Supt. of the Canadian Pacific R. R. Telegraph Co., states this company will string over 1,000 miles of copper wire in the West this season.

STONE, TRAP ROCK.—New York, N. Y.—Bids are asked until noon, April 2, by George Cromwell, Pres. Boro. Richmond, for 3,000 tons of 1½-in. stone and screenings of trap rock or Staten Island syenite.

STEEL TOP FOR DAM.—Pittsburg, Pa.—Bids are asked until April 9 by Maj. H. C. Newcomer, Corps Engrs., U. S. A., for building and delivering a steel movable top for new Dam No. 3, Monongahela River.

TELEPHONE PLANT.—Fort William, Ont.—The municipal telephone plant at Fort William will be improved during the present year at a cost of $12,000. A quantity of supplies will be advertised for during the next few weeks.

BUOY SERVICE.—Detroit, Mich.—Bids are asked until noon, April 17, for maintaining all the buoys now in Saginaw Bay and River, for the fiscal year ending June 30, 1908. Comdr. James T. Smith, U. S. N., Light-House Inspector.

DRAINAGE TUNNEL.—Colorado Springs, Colo.—Bids are asked for driving about 15,000 ft. of deep drainage tunnel in the Cripple Creek mining district, Colo. E. D. Marr, Secy., Colorado Springs. Noted on March 7. (Advertised, Engineering News.)

TELEPHONE SYSTEM.—Fort Saskatchewan, Alta.—The Town Council of Fort Saskatchewan has decided to install a municipal telephone system, and to connect with the government long-distance line at Lloydminster. A central-energy system will be installed.

STEAM SHOVEL WORK.—Dyersburg, Tenn.—Bids are asked until noon, April 10, for raising grades across four miles of the Obion River bottom on the Dyersburg Northern R. R., between Lenox and Ridgley, Tenn. R. M. Hall, Pres. (Advertised, Engineering News.)

WIRELESS SETS.—New York.—Bids are asked until 10 a. m., April 16, at the Bureau of Supplies, Washington, D. C., for two sets wireless telegraph apparatus and two duplicate gas engine generating sets for the New York navy yard. E. B. Rogers, Paymaster-Gen., U. S. N.

TELEPHONE SYSTEM.—Dunville, Ont.—The Dunville Telephone Co. has been incorporated here with a capital of $50,000, to carry on a general telephone business. The provisional directors include T. A. Marshall, R. A. Harrison and A. W. Daun, all of Dunville, Ont.

TRACK ELEVATION.—Indianapolis, Ind.—The Board of Public Works has passed a resolution providing for the separation of grades on West Washington and Decatur Sts. and at Morris St. and the Belt Road. The plan for the two elevations has been approved, and bids are now in order.

TIMBER.—Vancouver, B. C.—The PACIFIC COAST LUMBER CO., of Vancouver, has the contract for cutting timber for four mining dredges which are to be constructed by the Western Engineering & Construction Co., of San Francisco. The contract calls for 1,300,000 ft. at the rate of $35 per M. ft.

ARENA.—Montreal, Que.—A company headed by W. Lea Walbank, Pres. of the Canadian Society of Civil Engineers, is reported to plan the erection of a mammoth arena, on the exhibition grounds, capable of seating 7,000 persons. It will be the largest of its kind in Canada, and it is expected to be completed by Sept. 1, 1907, in time for the annual exhibition.

LIGHT-HOUSE FOUNDATION.—Philadelphia, Pa.—Bids are asked until 11 a. m., April 16, at the office of the Light-House Engineer, Philadelphia, Pa., for building concrete foundation for the Harbor of Refuge light-house, Delaware Bay. Major C. A. F. Flagler is Engr. (Advertised Engineering News.)

DREDGING.—Albany, Ill.—Bids are asked until 2 p. m., May 15 by the Commissioners of Meredosia Levee and Drainage District for the enlargement and construction of main ditching in District, requiring the removal of about 175,000 cu. yds. of material. E. L. Bigelow, Secy. (Advertised, Engineering News.)

STONE-CRUSHING PLANT.—Alpena, Mich.—The Michigan Alkali Co. has awarded contract for 250-ton stone crusher and all machinery to the ALLIS-CHALMERS CO. The steel frame work for building will be furnished by the WORDEN-ALLEN CO., of Milwaukee. The plant will be erected by the Alkali Co.

LOCOMOTIVE JIB CRANE.—Philadelphia, Pa.—Bids are asked until 11 a. m., April 20, for furnishing a locomotive jib crane for the League Island Navy Yard. H. H. Rousseau, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C. Specifications are on file at office of Engineering News, New York.

SEA-WALL.—North Chicago, Ill.—The Bureau of Navigation, Navy Dept., Washington, has awarded contract for construction of a timber crib sea-wall around site of power-house at naval training station, Great Lakes, North Chicago, Ill., to JAMES E. HALE, Commonwealth Ave., North Chicago, Ill., for $12,950.

EXCAVATION.—Boston, Mass.—Bids were received as follows by Maj. Edward Burr, U. S. Engrs., on March 20, for removal from Boston Harbor, Mass., of 14,654 cu. yds. (plus additional quantity not yet surveyed) ledge: G. H. Breymann & Bros., Toledo, Ohio, $23.75 a cu. yd., in place; P. Sanford Ross., Inc., Jersey City, N. J., $25.

LOCK AND APPROACHES.—Donaldsonville, La.—Bids are asked until noon, May 21, by the Joint Organization Atchafalaya Basin and Lafourche Levee Districts, Cotton Exchange Bldg., New Orleans, for construction of a lock and approaches at the head of Bayou Lafourche, La. W. J. McCune, Secy. (Advertised, Engineering News.)

ORDNANCE.—Washington, D. C.—Bids were opened March 20 at the office of the Chief of Ordnance, War Dept., Washington, D. C., for furnishing 2,000 six-pounder shells. Bids were: American & British Mfg. Co., Bridgeport, Conn., steel, 84 cts. each; delivery, 120 days. Bethlehem Steel Co., South Bethlehem, Pa., steel, $1.24 each; delivery, eight months. U. S. Rapid Fire Gun & Powder Co., Derby, Conn., steel, 76 cts. each; delivery, five months. Richmond Iron Works, Richmond, Va., cast-iron, 89 cts.; steel, 74 cts; delivery, six months on either.

CEMENT.—Provo, Utah.—Bids are asked until 2 p. m., April 22, by the U. S. Reclamation Service, for furnishing 10,000 bbls. of Portland cement, f. o. b. cars at the works of the bidder. This cement is for lining the tunnel in the Strawberry Valley Irrigation Project, Utah. Tunnel is to be four miles long, and will carry the stored waters of Strawberry River under the divide and empty them into Spanish Fork, from which a canal 18 to 20 miles long will convey them to about 50,000 acres of land in Central Utah. (Advertised, Engineering News.)

CREOSOTED TIES.—New Haven, Conn.—The New York, New Haven & Hartford R. R. Co. has placed a large order with the WYCKOFF PIPE & CREOSOTING CO., of Stamford, Conn., for creosoted railroad ties to be used on its main line. These ties are 7 × 7-8 ft. and are to be used in connection with screw spikes and tie plates.

DREDGING.—Rainy River, Ont.—Bids are asked until April 2 by the Department Public Works, Fred Gelinas, Secy., for dredging required at the mouth of Rainy River, Ont., during the present year. E. R. Temple, Resident Engr., Port Arthur.

DREDGING.—Chicago, Ill.—Bids were received as follows on March 22 for dredging in Calumet River, Ill. Lieut.-Col. W. H. Bixby, U. S. Engrs., Federal Bldg. Amount to be spent, $83,000. (Estimated cost, 20 cts. per cu. yd.) The bidders were: Buffalo Dredging Co., Buffalo, N. Y., 26.8 cts. a cu. yd. for 313,208 cu. yds.; Samuel O. Dixon, Milwaukee, Wis., 24.3 cts., 341,563 cu. yds.; The Fitz Simons & Connell Co., Chicago, 22.5 cts., 368,889 cu. yds.; Duluth-Superior Dredging Co., Duluth, Minn., 20 cts., 415,000 cu. yds.; Great Lakes Dredge & Dock Co., Chicago, 19.75 cts., 420,233 cu. yds. (lowest bid).

BATTLESHIPS.—Washington, D. C.—Plans and specifications for the two new battleships, authorized at the recent session of Congress, are being rapidly prepared by the Navy Department. It is the intention of the authorities to have them completed by April 15, at latest, which would allow them to be placed in the hands of prospective bidders by the first of May. The probable date of opening of proposals is July 1, as it is desired to give the bidders at least two months for consideration of the plans. Bids will be invited not only from various private shipbuilding companies, but also from the Government navy yards at Mare Island, New York, and Norfolk. The object of this is to secure a comparison between the bids submitted by private plants and by the government yards.

LOCK AND DAM, ETC.—Cincinnati, Ohio.—Bids were received March 22 by Maj. J. G. Warren, U. S. Engrs., for constructing Lock and Dam No. 11, two dwellings, two outhouses, two cisterns and one office building, near Ellis, Ohio. The bids were as follows: (A) Lock, dam and accessories, complete, Dam No. 1; (B) lock, dam and accessories, Dam No. 2; (C) lock, dam and accessories, Dam No. 3; (D) lock. H. E. Talbott & Co., Dayton, Ohio, (A) $217,786; (B) $217,943; (C) $214,948; (D) $169,730. Pennsylvania Contracting Co., Pittsburg, Pa., (A) $178,085; (B) $178,272; (C) $182,760; (D) $123,702. Edward J. Landor, Canton, Ohio, (A) $135,640. The Hollerbach & May Contract Co., Evansville, Ind., (A) $139,690; (B) $139,744; (C) $139,477; (D) $104,450. Itemized bids will be given under Contract Prices next week.

UNDERGRADE CROSSING.—Louisville, Ky.—Announcement was made on Feb. 21 that "the Board of Public Works will receive proposals for construction of an undergrade crossing in Oak St. under the tracks of the Illinois Central R. R. Length 816 ft., width 55 ft. Estimated cost, $65,000. The Illinois Central R. R. will let separate contract for steel superstructure. J. P. Claybrook is City Engr." A. S. Baldwin, Ch. Engr., I. C. R. R., Chicago, advises us that this company will take bids soon for the work. Work will consist of subway, steel I-beam floor supported on cross-girders and posts, reinforced concrete abutments and retaining walls. Estimated cost, $110,000. There will be about 4,000 cu. yds. of concrete and 380,000 lbs. of steel. Work is to be done for the city of Louisville, the Southern Ry., Louisville & Nashville R. R. and Illinois Central R. R. companies.

PROJECTILES.—Washington, D. C.—Bids were opened March 20 at the Bureau of Ordnance, Navy Dept., Washington, D. C., for projectiles, as follows: (a) 10,000 3-in. 50-caliber target shells; (b) 3,000 5-in. 50-caliber target shells; (c) 5,000 6-in. shells; (d) 2,000 8-in. shells; (e) 1,000 12-in. shells. Bids were:

United States Rapid Fire Gun & Powder Co., Derby, Conn., (a) $1.69½ each; delivery, July 9, 1,000; Aug. 9, 1,000; Sept. 9, 1,000; Oct. 9, 2,000; Dec. 9, 2,000; Dec. 31, 1,000.

American & British Mfg. Co., 70 Broadway, New York, (a) $2.44 each, commence delivery 90 days, 300 per week thereafter; (b) $8.50 each, commence Sept. 15, 250 per week; (c) $12.97 each, July 1, 250 per week.

Firth-Sterling Steel Co., Giesboro Point, D. C., (c) $12 each on 500 shells; complete delivery, Sept. 15; (d) $29 each on 400 shells; complete Sept. 15; (e) $75 each; complete Dec. 31.

Bethlehem Steel Co., South Bethlehem, Pa., (a) $2.34; commence 120 days, 750 per month thereafter; (b) $8.74; 200 days, 700 per month; (c) $16.25; 270 days, 500 per month; (d) $42.80; 180 days, 125 per month; (e) $96; 180 days, 75 per month.

E. W. Bliss Co., 17 Adams St., Brooklyn, N. Y., (a) $2.39; 120 days, 750 per week; forged steel; (b) $7; 120 days, 350 per week; forged with base plugs.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

RAILS, LOCOMOTIVES, ETC.—We are advised that John O'Brien, Elma, Wash., is in the market for from one to four miles of second-hand rails from 12 to 20 lbs., one light second-hand locomotive and six trucks.

STREET CARS.—Arcadia, Fla.—W. B. Clay, C. E., Arcadia, Fla., writes us that he desires catalogs and data concerning gasoline and electric motor-driven street cars, electric equipment, etc.

CONTRACTORS' EQUIPMENT.—Stockholm, Sweden.—We are in receipt of advices to the effect that Magnus Hellstrom, C. E., care of A. Hansson, Linnegatan 12, Stockholm, Sweden, desires catalogs and literature on the subject of earth and stone handling machniery, as well as concrete construction machinery and machinery for diggnig a small canal.

BOILERS AND ENGINES.—Battle Creek, Mich.—The Union Steam Pump Co., Battle Creek, Mich., wants catalogs of boilers and engines. This company is figuring on three 150-HP. boilers or larger, also on 150 to 200-HP. engines, self-contained, direct connected to generators. Address all catalogs to Gen. Supt.

SEWER EXCAVATING MACHINE.—Wheeling, W. Va.—We are informed that the Fort Henry Construction Co., of Wheeling, is in the market for a sewer excavating machine, to be used on ten to twenty thousand feet of ten foot trench, in sand and gravel soil.

ELECTRIC ELEVATORS.—Havana, Cuba.—We are requested by Giberga & Co., Habana 180, Havana, for information regarding the manufacturers of electric passenger elevators.

STARCH MACHINERY.—Havana, Cuba.—The J. F. Adams Eng. Co., Calle de Aguiar 81, Havana, writes us that information is wanted concerning machinery for making starch from yuca.

OIL ENGINES, SUGAR CANE MILLS, ETC.—N. Y. City.—Robert A Suffern & Co., 96 Wall St., New York City, inform us that they desire information regarding oil engines for operating small ice plants, sugar cane machinery, and machinery for extracting oil from cocoanuts, peanuts, etc.

CONTRACT PRICES.

[Where (*) precedes items Prices the work was ad gineering News.]

REGRADING.—Seattle, W ized bid submitted by Lew Seattle, for regrading Jacks provement Dist. 1213, was estimate, $10,000; clearing lump sum, $30,000; earth 1,770,000 cu. yds., 10 cts. work embankment, 1,363,000 lumber, new, 100 M. ft. B. relaying old lumber, 100 M. per M.; concrete retaining yds., $10 a cu. yd.; iron rail $1; bulkhead piling, 50,000 bulkhead lumber, 500 M. ft. 200,000 lbs., 5 cts.; oak block sewer box, 10,000 lin. ft., $481,475. The contract pro awarded to this firm.

For regrading Fourth Ave C. T. Erickson; (B) J. S. Hol & McKinnon, all of Seattle:

	(A)*	(B)	(C)
Fixed estimate	$5,000.00	$5,000.00	$5,000.00
Clearing and grubbing, lump sum	15,000.00	10,000.00	5,000.00
403,000 cu. yds. earthwork	.50	.55	.60
266,000 lbs. steel	.07	.05½	.06
13,212 lbs. cast iron	.07	.01	.06
1,220 cu. yds. concrete	8.00	8.00	10.00
510 sq. yds. sandstone paving	2.00	3.00	3.50
748 sq. yds. water-proofing	.25	.40	.50
28 sq. yds. brick gutters	2.00	2.10	1.50
170 lin. ft. granite curb	1.60	1.80	1.75
748 sq. yds. Clinton wire cloth	.50	.50	.60
210 sq. yds. concrete walks	1.60	1.40	1.75
340 piles	10.00	6.00	10.00
300 lin. ft. 3" tile drain	.30	.60	.30
1,850 lin. ft. 8" sewer pipe	1.70	1.50	1.50
1,856 lin. ft. 10" sewer pipe	1.80	1.90	1.85
1,869 lin. ft. 12" sewer pipe	2.00	2.10	2.00
306 lin. ft. 15" sewer pipe	2.60	2.50	3.50
721 lin. ft. 18" sewer pipe	3.75	3.20	4.00
462 lin. ft. 21" sewer pipe	4.50	3.60	4.00
34 manholes	75.00	70.00	75.00
2 flush tanks	100.00	110.00	60.00
1 special overflow manhole	100.00	110.00	80.00
100 M. ft. B. M. bulkhead lumber, temporary structure	25.00	22.00	27.00
10,000 lbs. miscellaneous wrought iron for temporary structure	.07	.05	.06
Total	$278,392	$287,022	$321,360

*Probably will be awarded contract.

*AQUEDUCT.—New York, N. Y.—Bids in detail were received on March 18 by the Board of Water Supply, as follows, for construction of portions of the Catskill aqueduct, aggregating 10.73 miles in length: J. Waldo Smith, Ch. Engr.; Alfred D. Flinn, Dept. Engr.; Percy C. Barney, Prin. Asst. Engr. The bidders were: (A) Thomas McNally Co., Pittsburg, Pa.; (B) McArthur Bros. Co. & Jules Breuchaud, 11 Pine St., New York City; (C) Thomas Crimmins Cont. Co., 44 East 69th St., New York City; (D) The T. A. Gillespie Co., 71 Broadway, New York City; (E) Naughton Co. and Arthur McMullen, 299 Broadway, New York City; (F) the Cranford Co., 52 Ninth St., Brooklyn, N. Y.; (G) Michael J. Dady, 350 Fulton St., Brooklyn, N. Y.; (H) Patrick McGovern & Co., Boston, Mass.:

BIDS RECEIVED ON MARCH 18 FOR CONSTRUCTING PORTIONS OF THE CATSKILL AQUEDUCT.

		(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)
255,000	cu. yds. excav. in open cut, Sta's 100 to 200.	$0.94	$0.70	$1.18	$1.00	$1.00	$1.86	$1.00	$1.82
238,000	" " " " " " " 200 to 275.	.97	.74	1.04	1.00	1.00	2.12	1.00	1.77
36,000	" " " " " " " 275 to 305.	1.01	1.30	1.86	1.20	1.00	1.11	1.00	2.40
41,000	" " " " " " " 380 to 408+10	1.24	1.45	1.72	1.20	1.00	.84	1.00	2.36
2,300	" " " " " " " 431+60 to 433	1.31	1.55	1.04	1.20	1.00	.84	1.00	2.02
117,000	" " " " " " " 457 to 490+50	1.33	1.35	1.69	1.30	1.00	1.20	1.00	1.82
59,000	" " " " " " " 604+80 to 626	1.08	.50	.78	1.20	1.00	.53	1.00	.81
150,000	" " " " " " " 626 to 681+50	1.26	.50	.56	1.20	1.00	.53	1.00	1.15
74,000	" " " " " " " 691 to 730.	1.21	1.00	1.30	1.20	1.00	.95	1.00	2.40
86,000	" " " " " " " 739 to 775.	1.32	1.00	1.17	1.20	1.00	.84	1.00	2.00
148,000	cu. yds. refilling & embkg., Sta's 100 to 200.	.26	.30	.24	.35	.50	.10	.25	.40
123,000	" " " " " " " 200 to 275.	.26	.35	.22	.35	.50	.10	.25	.40
45,000	" " " " " " " 275 to 305.	.26	.30	.29	.35	.50	.15	.25	.40
33,000	" " " " " " " 380 to 408+10	.26	.45	.20	.35	.50	.10	.25	.50
300	" " " " " " " 431+60 to 433	.26	.45	.20	.35	.50	.10	.25	.40
59,000	" " " " " " " 457 to 490+50	.26	.40	.58	.35	.50	.20	.25	.40
52,000	" " " " " " " 604+80 to 626	.26	.30	.20	.35	.50	.10	.25	.40
85,000	" " " " " " " 626 to 681+50	.26	.30	.20	.35	.50	.10	.25	.40
38,000	" " " " " " " 691 to 730.	.26	.40	.45	.35	.50	.15	.25	.50
76,000	" " " " " " " 739 to 775.	.26	.40	.26	.35	.50	.15	.25	.40
211,000	cu. yds. concrete masonry for aqueduct in open cut and on embankment	4.29	4.30	5.83	7.00	6.80	7.34	7.50	5.50
690	cu. yds. crushed stone and gravel	2.40	2.00	1.50	3.00	2.00	2.00	3.50	2.00
7	10" sluice gates	84.50	100.00	54.00	60.00	93.00	100.00	500.00	50.00
4	24" gate valves	381.00	250.00	327.00	200.00	200.00	350.00	250.00	250.00
10	tons cast-iron pipes and special castings	80.22	80.00	90.00	120.00	112.00	120.00	70.00	50.00
3,500	lin. ft. vitrified pipes	1.67	1.00	1.30	2.00	1.50	2.00	1.50	1.15
336	M. ft. B. M. timber and lumber	45.20	50.00	84.50	75.00	75.00	30.00	60.00	45.00
2,000	sq. yds. surfacing macadam roads	.67	1.50	.65	1.50	.93	2.00	1.00	.75
190	lin. ft. shafts in rock	40.20	150.00	150.00	100.00	112.00	100.00	100.00	100.00
50	lin. ft. shafts in earth	28.19	85.00	60.00	100.00	69.00	100.00	75.00	50.00
155,000	cu. yds. rock excavation in tunnel	3.27	6.00	7.50	5.90	6.95	7.00	6.00	7.50
200	sq. yds. additional trimming in rock tunnel	1.66	6.00	15.00	5.00	5.00	4.00	3.00	8.00
15,000	cu. yds. earth excavation in tunnel	2.77	5.00	4.50	5.00	2.80	7.50	5.00	7.50
200	cu. yds. enlargement of tunnel sec. in earth	3.00	18.00	15.00	7.00	5.00	25.00	5.00	6.00
1,000	M. ft. B. M. timbering in tunnel	44.20	65.00	97.50	70.00	69.00	60.00	100.00	50.00
14,680	lin. ft. tunnel drainage	1.35	1.00	1.75	3.00	1.12	2.00	1.00	2.00
14,680	lin. ft. forms for masonry lining in tunnel	4.12	4.00	5.75	4.00	2.50	7.50	5.00	2.40
45,000	cu. yds. concrete masonry in tunnel	5.61	5.30	8.40	8.00	10.00	7.00	7.00	6.50
1,000	cu. yds. excess concr. masonry in tunnel, types A & B & r. p. type C	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50
200	cu. yds. brick masonry in tunnel	10.30	17.00	22.50	16.00	20.00	12.00	12.00	20.00
160	cu. yds. concrete masonry in shafts	7.20	10.00	5.25	10.00	13.75	15.00	12.00	6.50
7,700	cu. yds. dry packing of rock	2.00	3.50	1.75	2.50	2.20	3.00	2.00	1.00
500	lin. ft. drilling 2½" or smaller holes	.75	1.00	.50	.50	.25	2.00	2.00	.70
1,000	lin. ft. furnishing & placing 2" or smaller iron pipe	.20	.30	.50	.50	.25	.50	2.00	.25
137,000	cu. yds. excavation of top soil	.32	.65	.35	1.00	1.00	.30	.25	.50
137,000	cu. yds. soil for surface dressing	.45	.45	.40	.50	.50	.30	.40	.50
340,000	bbls. Portland cement	1.85	1.75	2.00	2.15	2.12	1.80	2.15	2.35
60,000	cu. ft. grout of Portland cement	.60	.17	.58	.50	.15	.20	.15	.30
2,000	cu. yds. dry rubble masonry and paving	2.65	3.90	1.72	5.00	3.10	3.00	4.00	2.00
84,000	lin. ft. stone boundary walls	.90	.67	.70	.80	.80	.60	1.00	1.00
63,000	lin. ft. fences and guard rails	.36	.30	.23	.40	.30	.30	.50	.30
125,000	lbs. steel for reinforcing concrete	.05	.06	035	.05	.053	.04	.10	.04
8,000	lbs. wrought-iron, cast-iron and steel	.06	.06	.10	.06	.09	.04	.10	.035
3,000	lbs. bronze work	.44	.50	.46	.40	.56	.50	.80	.50
500	cu. yds. miscellaneous reinforced concrete	8.90	10.00	6.90	20.00	13.75	10.00	15.00	7.00
300	lin. ft. reinforced concrete ladders	1.60	2.25	1.15	4.00	5.60	2.00	5.00	2.00
Time: 45 months.									
Total		$4,126,423	$4,366,335	$5,447,170	$5,644,495	$5,653,578	$5,681,762	$6,035,530	$6,149,408

*RECLAMATION CANALS AND LATERALS.—Cody, Wyo.—Bids were received on March 12 by the U. S. Reclamation Service for construction of canals and laterals, divisions 2-19, inclusive, Garland Project. The bidders were: (A) A. J. McGuffey and J. Blood, Cody; (B) Emanuel Thomas, Byron, Wyo. (informal proposal); (C) G. W. Johnson, Lovell, Wyo.:

BIDS RECEIVED ON MARCH 12 FOR CANALS, GARLAND PROJECT, CODY, WYO.

DIVISION 2.

		(A)*
112,600 cu.	excavation, Class 1...	$0.25
3,000 cu.	excavation, Class 2...	.60
5,000 cu.	excavation, Class 3...	1.00
74,000 cu.	overhaul	.02
2.5 mi	laterals, 5 sec.-ft.	352.00
1.9 mi	laterals, 10 sec.-ft.	880.00
		$39,184

DIVISION 3.

95,000 cu.	excavation, Class 1...	$0.30
2,500 cu.	excavation, Class 2...	.60
500 cu.	excavation, Class 3...	1.00
120,000 cu.	overhaul	.02
		$32,900

DIVISION 4.

81,000 cu. yds.	excavation, Class 1...	$0.28
1,500 cu. yds.	excavation, Class 2...	.60
500 cu. yds.	excavation, Class 3...	1.00
120,000 cu. yds.	overhaul	.02
		$25,680

DIVISION 9.

		(A)
35,000 cu. yds.	excavation, Class 1...	$0.22
1,800 cu. yds.	excavation, Class 2...	.70
1,200 cu. yds.	excavation, Class 3...	1.10
20,000 cu. yds.	overhaul	.02
6.6 miles	laterals, 5 sec.-ft.	352.00
4.3 miles	laterals, 10 sec.-ft.	880.00
1.6 miles	laterals, 15 sec.-ft.	1,368.00
		$19,086

DIVISION 10.

11,000 cu. yds.	excavation, Class 1...	$0.22
900 cu. yds.	excavation, Class 2...	.70
300 cu. yds.	excavation, Class 3...	1.10
2,000 cu. yds.	overhaul	.02
4.5 miles	laterals, 5 sec.-ft.	352.00
2.3 miles	laterals, 10 sec.-ft.	880.00
0.3 mile	laterals, 15 sec.-ft.	1,368.00
		$7,438

DIVISION 11.

30,000 cu. yds.	excavation, Class 1...	$0.22
300 cu. yds.	excavation, Class 2...	.70
200 cu. yds.	excavation, Class 3...	1.10
2,000 cu. yds.	overhaul	.02
6.0 miles	laterals, 5 sec.-ft.	352.00
3.2 miles	laterals, 10 sec.-ft.	880.00
0.9 mile	laterals, 15 sec.-ft.	1,368.00
		$13,220

DIVISION 12.

29,000 cu. yds.	excavation, Class 1...	$0.22
700 cu. yds.	excavation, Class 2...	.70
500 cu. yds.	excavation, Class 3...	1.10
4,000 cu. yds.	overhaul	.02
6.9 miles	laterals, 5 sec.-ft.	352.00
0.5 mile	laterals, 10 sec.-ft.	880.00
		$10,369

DIVISION 13.

11,000 cu. yds.	excavation, Class 1...	$0.22
500 cu. yds.	excavation, Class 2...	.70
500 cu. yds.	excavation, Class 3...	1.10
2,000 cu. yds.	overhaul	.02
0.8 mile	laterals, 5 sec-ft.	352.00
		$3,642

DIVISION 14.

5,500 cu. yds.	excavation, Class 1...	$0.22
100 cu. yds.	excavation, Class 2...	.70
100 cu. yds.	excavation, Class 3...	1.10
1,000 cu. yds.	overhaul	.02
2.7 miles	laterals, 5 sec.-ft.	352.00
1.5 miles	laterals, 10 sec.-ft.	880.00
1.0 mile	laterals, 15 sec.-ft.	1,368.00
		$5,048

DIVISION 15.

8,000 cu. yds.	excavation, Class 1...	$0.22
400 cu. yds.	excavation, Class 2...	.70
200 cu. yds.	excavation, Class 3...	1.10
1,000 cu. yds.	overhaul	.02
4.1 miles	laterals, 5 sec.-ft.	352.00
3.1 miles	laterals, 10 sec.-ft.	880.00
0.8 mile	laterals, 15 sec.-ft.	1,368.00
		$7,546

DIVISION 16.

17,000 cu. yds.	excavation, Class 1...	$0.22
700 cu. yds.	excavation, Class 2...	.70
400 cu. yds.	excavation, Class 3...	1.10
2,000 cu. yds.	overhaul	.02
3.7 miles	laterals, 5 sec.-ft.	352.00
3.4 miles	laterals, 10 sec.-ft.	880.00
2.0 miles	laterals, 15 sec.-ft.	1,368.00
		$11,740

DIVISION 17.

47,000 cu. yds.	excavation, Class 1...	$0.22
600 cu. yds.	excavation, Class 2...	.70
200 cu. yds.	excavation, Class 3...	1.10
4,000 cu. yds.	overhaul	.02
2.6 miles	laterals, 5 sec.-ft.	352.00
2.6 miles	laterals, 10 sec.-ft.	880.00
		$14,263

DIVISION 18.

10,000 cu. yds.	excavation, Class 1...	$0.22
600 cu. yds.	excavation, Class 2...	.70
400 cu. yds.	excavation, Class 3...	1.10
1,000 cu. yds.	overhaul	.02
5.6 miles	laterals, 5 sec.-ft.	352.00
2.1 miles	laterals, 10 sec.-ft.	880.01
0.6 mile	laterals, 15 sec.-ft.	1,368.00
		$7,720

DIVISION 19.

25,000 cu. yds.	excavation, Class 1...	$0.22
700 cu. yds.	excavation, Class 2...	.70
1,000 cu. yds.	excavation, Class 3...	1.10
2,000 cu. yds.	overhaul	.02
6.6 miles	laterals, 5 sec.-ft.	352.00
5.7 miles	laterals, 10 sec.-ft.	880.00
		$14,469

DIVISION 5.

		(A)	(C)
91,000 cu. yds.	excavation, Class 1	$0.20	$0.22
1,500 cu. yds.	excavation, Class 2	.60	.50
3,000 cu. yds.	excavation, Class 3	1.00	1.00
40,000 cu. yds.	overhaul	.02	.02
4.0 miles	laterals, 5 sec.-ft.	352.00	300.00
2.2 miles	laterals, 10 sec.-ft.	880.00	300.00
0.9 mile	laterals, 15 sec.-ft.	1,368.00	300.00
		$27,475	$26,700

DIVISION 6.

91,000 cu. yds.	excavation, Class 1	$0.20	$0.23
1,500 cu. yds.	excavation, Class 2	.60	.50
3,500 cu. yds.	excavation, Class 3	1.00	1.00
30,000 cu. yds.	overhaul	.02	.02
6.0 miles	laterals, 5 sec.-ft.	352.00	300.00
1.6 miles	laterals, 10 sec.-ft.	880.00	300.00
0.5 mile	laterals, 15 sec.-ft.	1,368.00	300.00
		$27,404	$28,210

DIVISION 7.

72,000 cu. yds.	excavation, Class 1	$0.20	$0.24
6,500 cu. yds.	excavation, Class 2	.60	.50
6,500 cu. yds.	excavation, Class 3	1.00	1.00
30,000 cu. yds.	overhaul	.02	.02
2.9 miles	laterals, 5 sec.-ft.	352.00	300.00
2.1 miles	laterals, 10 sec.-ft.	880.00	300.00
0.6 mile	laterals, 15 sec.-ft.	1,368.00	300.00
		$29,000	$29,310

DIVISION 8.

65,000 cu. yds.	excavation, Class 1	$0.22	$0.25
15,500 cu. yds.	excavation, Class 2	.60	.50
8,000 cu. yds.	excavation, Class 3	1.00	1.00
25,000 cu. yds.	overhaul	.02	.02
2.1 miles	laterals, 5 sec.-ft.	352.00	300.00
0.6 mile	laterals, 10 sec.-ft.	880.00	300.00
		$33,367	$33,310

*Any two divisions only.

CONCRETE SEWERS.—Cairo, Ill.—Bids were received on March 12 by the Board of Local Improvements for the construction of main concrete sewers on Commercial Ave. and Tenth St. The bids in detail and the bidders were: (A) Mercantile Bridge & Concrete Tile Co., Paris, Ill.; (B) Rich Construction Co., Roe Bldg., St. Louis, Mo.:

	(A)	(B)
For all concrete sewer of 4' internal diameter from 38th St. to 34th St., 1,012'	$5.50	$5.00
For all concrete sewer of 4' internal diameter from Second St. to Tenth St., 2,040'	7.50	6.50
For all concrete sewer of 4' internal diameter in outlet into Ohio River, 100'	5.00	6.50
For all concrete sewer of 4½' internal diameter, 1,531'	7.00	6.50
For all concrete sewer of 5½' internal diameter, 3,035'	8.00	8.40
For all concrete sewer of 6' internal diameter (not reinforced) from 16th St. to Tenth St., 1,550'	11.00	12.00
For all concrete sewer of 6' internal diameter (steel reinforced) in Tenth St., 415'	33.00	32.00
For all tile pipe sewer of 10" inside diameter for inlet connections, 4,253'	.60	.60
For all tile pipe sewer of 8" internal diameter, for auxiliary sewers, 7,043'	.55	.50*
For all tile pipe sewer of 6" internal diameter for house connections, 3,854'	.50	.45
For manholes, 8' deep, complete; 36, each	47.00	40.00
For each vertical foot of manhole more than 8' deep, 144'	5.00	4.00
For specially constructed manhole in Ohio St. for main gate, amount in excess of regular manhole	420.00	300.00
For specially constructed manhole in 20th St. for emergency gate, amount in excess of regular manhole	72.00	200.00
For 111 inlets, complete, each	20.00	15.00
For all concrete not otherwise provided for, 10 cu. yds.	9.00	9.00
For timber foundations, sheathing and anchor posts in place, 150,000 ft. B. M., per M.	30.00	30.00
For main gate, complete in place	540.00	2,000.00
For lowering Tenth St. pump, pump well and connection and reconstructing the same complete	3,850.00	3,500.00
For head wall and run-off, complete	287.00	400.00
Total	$109,815	$108,813

INDUSTRIAL NOTES.

THE ALLIS-CHALMERS CO., Milwaukee, Wis., announce the opening of a new branch office at 316 Godchaux Bldg., New Orleans, La.

THE ROCKLAND SOAP ROCK CO. informs us that after May 1st, 1907, its offices will be in the Barclay Building, 290 Broadway, New York.

THE ATLANTIC BITULITHIC CO., Spartanburg, S. C., advises us that on and after April 1, 1907, the general offices of the company will be located in the Mutual Bldg., Richmond, Va.

THE PRESSED STEEL CAR CO. has changed its Western office from the Fisher Building to the 14th floor, Old Colony Building, Chicago, where Mr. J. H. Mitchell, Manager of Sales of the Western District, will make his headquarters after this date.

NATIONAL BOILER & SHEET IRON WORKS, National Dry Kiln Co., Proprietors, of Indianapolis, Ind., have recently added a locomotive repair department in order to meet the increasing demands of their customers. This department will have all modern facilities for the quick repair of locomotives, etc.

GEORGE W. JACKSON (Incorporated), Borland Building, Chicago, is the title of a new contracting firm which is successor to the business of the Jackson & Corbett Bridge & Steel Works, the Jackson & Corbett Co., the Interlocking Steel Sheeting Co., and George W. Jackson, consulting engineer. It will make a specialty of bridges and machinery, tunnels and subways, and heavy foundation work.

JOHN F. ALLEN, 370-372 Gerard Ave., New York City, is in receipt of an order for eight "Allen" Boiler Riveters of 108-in. reach, designed expressly for the American Car & Foundry Co. for their new plant now in the course of erection at Milton, Pa. This plant now has seventeen "Allen" riveting machines of this type, of 96-in. reach, which, with the present order, will make a large and very complete equipment. The eight machines just ordered are to be used on oil tanks for cars.

STEPHEN T. WILLIAMS & STAFF, 346 Broadway, New York, have been entered for some time in the classified index of advertisers in Engineering News as "Accountants." This designation we find is inaccurate, inasmuch as the organization in question does no accounting or auditing, but makes its specialty that of developing earning power. Although as incidentals to this development the organization may go into costs and facilitating production and simplification of routine, its real work is separate and distinct from that branch of business known as accounting.

THE WATER-WORKS EQUIPMENT CO. informs us that W. H. Van Winkle, Pres. and Gen. Mgr., has been awarded a "Letters Patent" dated March 5, 1907, the "Patent" consisting of an apparatus for tapping mains, the combination with the coupling and parts connected thereto, of a drill-shaft, drill, and an annular saw, a frame for supporting the same, an internal-combustion engine mounted upon the frame, gears between the engine and shaft for rotating the latter, and a connection between the coupling and water-jacket of the engine to admit water after the saw has been brought into action.

THE POWER SPECIALTY CO., 111 Broadway, N. Y. City, states that the central heating and power plant, to be completed during the coming summer, for the Capitol Buildings at Washington, will contain 9,000 HP. of water tube boilers. These boilers will be equipped with Foster Superheaters, manufactured by the Power Specialty Co. At the recent opening of bids on boiler, stoker and superheater equipment for the above plant, twenty-two of the tenders, including that of the successful bidder, offered the above superheater; the two remaining boiler companies bidding offered a bare tube type of superheater.

THE POWER SPECIALTY COMPANY, 111 Broadway, New York City, reports that some of the recent business secured by this company includes the following orders for Foster Superheaters, aggregating many thousand horse-power, for installation in various types of water tube and fire tube boilers, many of which are repeat orders: Newnan Cotton Mills, Newnan, Ga.; Illinois Central Railway, Chicago; Tennessee Copper Co., Copper Hill, Tenn.; Canada Turpentine Co., Montreal; Cross, Austin & Ireland Lumber Co.; Old Dominion Copper Co.; Chas. S. Tanner Co., Columbia Improvement Co., Tampa; Bucyrus Co., Milwaukee; Philadelphia Electric Co.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 119.

GARBAGE DISPOSAL PLANT.

Birmingham, Ala.

Sealed proposals, accompanied by plans and specifications, will be received by the undersigned until 2:00 P. M., Wednesday, April 17th, 1907, for erecting a sixty (60) and a one hundred (100) ton garbage disposal plant. Instructions to bidders may be obtained from the undersigned. The right is reserved to reject any or all bids.

JULIAN KENDRICK,
13-2t City Engineer, Birmingham, Ala.

RAILROAD CONSTRUCTION—STEAM SHOVEL WORK.

Dyersburg, Tenn., March 25, 1907.

Sealed proposals for the raising of grades across four (4) miles of the Obion River bottom on Dyersburg Northern Railroad, between Lenox and Ridgley, Tenn., will be received until twelve o'clock noon, April 10th, 1907, at the President's office at Dyersburg, Tenn.

Profiles and specifications may be seen at the General Superintendent's office.

The right to reject any and all bids is reserved.

R. M. HALL,
President.
R. L. KITTLE,
General Superintendent. 13-2t

SEWERAGE SYSTEM.

New Canaan, Conn.

Sealed proposals for all labor and materials required for the construction of Section 2 of the Piping System of the New Canaan Sewers will be received until noon, April 8th, 1907. The work includes the construction of about two and one-eighth miles of pipe sewers in sizes from 12 inches to 6 inches in diameter, with manholes and other appurtenances.

All proposals must be on forms provided for this purpose, and such form and all information can be obtained at the Engineer's office, Mead's Block, South Main St., New Canaan, Conn., or at Insurance Bldg., Dedham, Mass. A certified check in the sum of Five Hundred Dollars must accompany each proposal. The right to reject any or all bids or to accept any bid is reserved.

J. F. BLISS, Warden,
Borough of New Canaan, Conn.
E. WORTHINGTON, Engineer. 13-2t

SEALED PROPOSALS will be received at the office of the Light-House Engineer, Philadelphia, Pa., until 11 o'clock A. M., April 16, 1907, and then opened, for building concrete foundation for the Harbor of Refuge light-house, Delaware Bay, in accordance with specifications, copies of which, with blank proposals and other information, may be had upon application to MAJOR C. A. F. FLAGLER, Corps of Engineers, U. S. A., Engineer. 13-2t

SITUATIONS OPEN

WANTED—Chainman, rodman and timekeeper on construction work in New York. Men with technical education and practical experience will be given preference. Address "C. B. 13," Engineering News, New York. 13-1t

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

TIES.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to GEORGE S. BAXTER & CO., 17 William St., New York, contract for furnishing 150,000 hewn cypress cross ties, at 96 cts. each.

SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., April 6, by David W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for an outfit for two sea-going dredges, the "Ancon" and the "Culebra," and include a great variety of miscellaneous supplies.

BRIDGE.—Alaska.—The Seattle "Post-Intelligencer" states that a 90-ft. bridge will be constructed this spring across the Kotsina River at the lower crossing on the trail to the copper country, by the Alaska road commission. The contract has been let to OSCAR OLSON, of Valdez, Alaska. "This has always been considered the most dangerous crossing on the trail, being just above a long canyon, where there is no chance of landing if one goes down the stream too far."

ENGINEERING SUPPLIES.—Panama.—Bids are asked until 10.30 a. m., April 8, by the General Purchasing Officer of the Isthmian Canal Comn., Washington, D. C., for a quantity of engineering and other supplies, as follows: 500 steel plates, ⅜-in. × 4 ft. × 9 ft. 9½ ins.; cone, oval, flat and countersunk-head rivets; 250 compression bibb cocks; 100 steam gage cocks and 300 steam cocks; nut unions; one portable pressure gage testing machine; 12 differential blocks; 10,000 ft. wire rope; 300 ft. lead-incased tenwire cable; 3,000 ft. wire moulding; 2,000 ft. B. M., clear basswood lumber; 2,000 lbs. white lead; furniture, safes, etc.

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